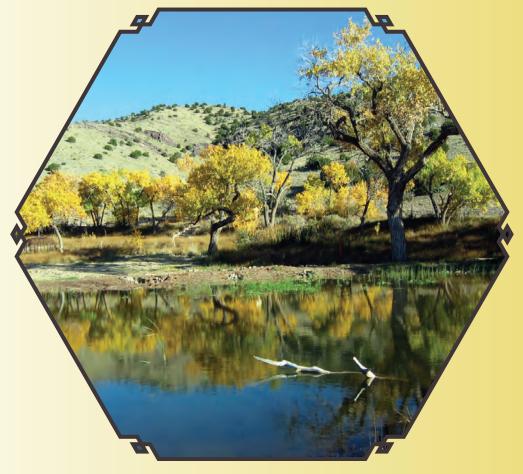
### **Annual Groundwater Monitoring Report**



Prepared by Sandia National Laboratories Albuquerque, New Mexico

Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company, for the United States Department of Energy's National Nuclear Security Administration under Contract DE-AC04-94A185000

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# Annual Groundwater Monitoring Report

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### Fiscal Year 2006

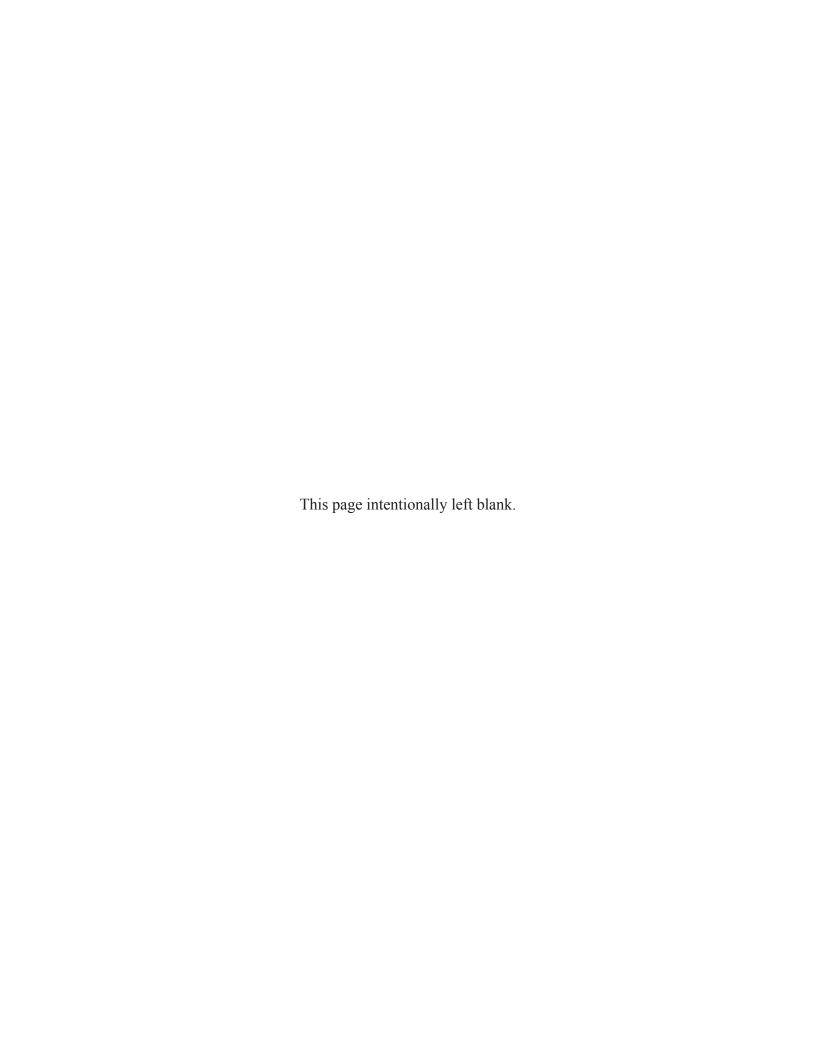


# Groundwater Protection Program Sandia National Laboratories, New Mexico March 2007

### Prepared by:

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### acknowledgments

The production of this document is a joint effort between the Groundwater Protection Program (GWPP) and the Environmental Restoration (ER) Project.

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Mixed Waste Landfill Drilling Operations

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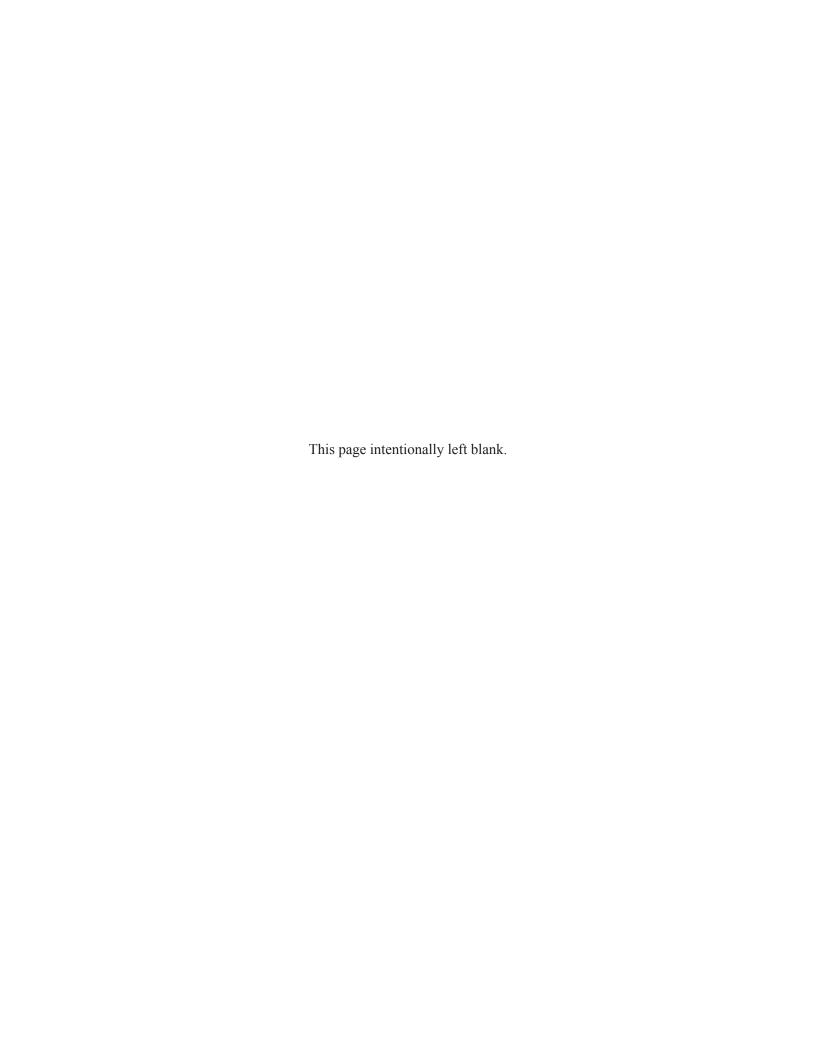
Mixed Waste Landfill (MWL)

Michael Skelly (Weston Solutions, Inc.)

Tijeras Arroyo Groundwater (TAG) Investigation, Technical Area V
(TA-V), and Burn Site Groundwater Area

### **ABSTRACT**

Sandia National Laboratories, New Mexico (SNL/NM) is a government-owned/contractor-operated laboratory. Sandia Corporation, a wholly-owned subsidiary of Lockheed Martin Corporation, manages and operates the laboratory for the U.S. Department of Energy (DOE), National Nuclear Security Administration (NNSA). The DOE/NNSA Sandia Site Office (SSO) administers the contract and oversees contractor operations at the site. This annual report summarizes data and the compliance status of Sandia Corporation's environmental protection and monitoring programs through December 31, 2005. Major environmental programs include air quality, water quality, groundwater protection, terrestrial surveillance, waste management, pollution prevention (P2), environmental restoration (ER), oil and chemical spill prevention, and the National Environmental Policy Act (NEPA). Environmental monitoring and surveillance programs are required by DOE Order 450.1, *Environmental Protection Program* (DOE 2005) and DOE Order 231.1A, *Environment, Safety, and Health Reporting* (DOE 2004).



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### Abbreviations and Acronyms

bgs below ground surface CFR Code of Federal Regulations

CaCO<sub>3</sub> calcium carbonate

CAMÚ Corrective Action Management Unit

CWL Chemical Waste Landfill
COA City of Albuquerque
COC Contaminant of Concern
COOC Compliance Order on Consent

DCG derived concentration guide (established by DOE)

DOE U.S. Department of Energy

DU depleted uranium

EOD Explosive Ordnance Disposal

E<sub>H</sub> oxidation-reduction potential (redox)
EPA U.S. Environmental Protection Agency

ER Environmental Restoration

ERCL Environmental Restoration Chemistry Laboratory

FOP field operating procedure

FY Fiscal Year

GEL General Engineering Labs
GIP Groundwater Investigation Plan
GIS Geographical Information System
GWPP Groundwater Protection Program

GWS groundwater system HE high explosives

HPT High Performance Team

HSWA Hazardous and Solid Waste Amendments

HWB Hazardous Waste Bureau

IRP Installation Restoration Program (Air Force)

"J" data qualifier (indicating an estimated constituent concentration that was detected but is

below the laboratory practical quantification limit)

KAFB Kirtland Air Force Base LCS laboratory control sample LWDS Liquid Waste Disposal System

MAC maximum allowable concentration (established by the NMED)

MCL maximum contaminant level
MWL Mixed Waste Landfill
Ma million years ago
NFA No Further Action

NMAC New Mexico Administrative Code NMED New Mexico Environment Department

NMWQCC New Mexico Water Quality Control Commission NNSA National Nuclear Security Administration

NOV Notice of Violation

NTU nephelometric turbidity units

OU Operable Unit

PCBs polychlorinated biphenyls

PCE tetrachloroethene

PGWS Perched Groundwater System

pH potential of hydrogen (hydrogen ion concentration)

PQL practical quantification limit

QA quality assurance QC quality control

RCRA Resource Conservation and Recovery Act

RFI RCRA Facility Investigation SAP Sampling and Analysis Plan

### Abbreviations and Acronyms (continued)

SC specific conductance

SERF Sandia Experimental Reactor Facility

SGWS Shallow Groundwater System SMO Sample Management Office

SNL/NM Sandia National Laboratories/New Mexico

SVOC semi-volatile organic compound SWMU Solid Waste Management Unit

SWHC Site-Wide Hydrologic Characterization (Task)

TA Technical Area

TAG Tijeras Arroyo Groundwater (Investigation)

TAL Target Analyte List

TCE trichloroethene (equivalent to trichlorethylene)

TKN total kjeldahl nitrogen
TOX total halogenated organics
USAF United States Air Force

USGS United States Geological Survey VCM Voluntary Corrective Measure

VE Vapor Extraction

VOC volatile organic compound

WQ water quality WL water level

### **Monitor Well Location Descriptions**

AVN-#	Area V (North)	SFR-#	South Fence Road
CTF-#	Coyote Test Field	STW-#	Solar Tower (West)
CWL-#	Chemical Waste Landfill	SWTA-#	Southwest Tech Area III
CYN-#	Lurance Canyon	TA1-W-#	Tech Area I (Well)
LWDS-#	Liquid Waste Disposal	TA2-NW-#	Tech Area II (Northwest)
MP-#	Montessa Park	TA2-SW-#	Tech Area II (Southwest)
MRN-#	Magazine Road North	TA2-W-#	Tech Area II (Well)
MVMWJ	Mountain View Monitor Well J	TAV-#	Tech Area V
MVMWK	Mountain View Monitor Well K	TJA-#	Tijeras Arroyo
MWL-#	Mixed Waste Landfill	TRE-#	Thunder Road East
NMED-#	New Mexico Environment	TRN-#	Target Road North
	Department	TRS-#	Target Road South
NWTA3-#	Northwest Tech Area III	TSA-#	Transportation Safeguards Academy
PGS-#	Parade Ground South	WYO-#	Wyoming
PL-#	Power Line Road	12AUP-#	ER Site 12A Underflow Piezometer

CONTENT

### **Units**

°C degree Celsius acre feet ac ft Curie Ci

Ci/yr curies per year ft, ft<sup>3</sup> foot, cubic feet ft/yr feet per year gallon gal

gpm gallons per minute

inches in

in/yr inches per year km kilometer meter m Ma mega annum milligram per liter milliliter mg/L

mĺ

millirem per year mRem/yr

millivolt mV

NTU nephelometric turbidity units

pCi/g pCi/L picocuries per gram picocuries per grain picocuries per liter potential of hydrogen part(s) per billion, equivalent to μg/L in water pН

ppb

μg/L microgram per liter

μmho/cm micromhos per centimeter (unit of specific conductance)

yd, yd³ yard, cubic yards

# Annual Groundwater Report document summary

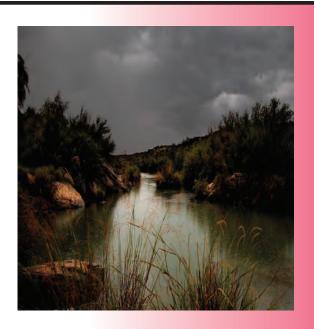
Sandia National Laboratories, New Mexico (SNL/NM), managed and operated for the U.S. Department of Energy /National Nuclear Security Administration (DOE/NNSA) by Sandia Corporation, a wholly-owned subsidiary of Lockheed Martin Corporation, is located on Kirtland Air Force Base (KAFB). The purpose of this Annual Groundwater Monitoring Report is to document the groundwater monitoring results conducted in Fiscal Year 2006 (FY06), which extended from October 1, 2005 to September 30, 2006. This includes both water quality sampling results and water level measurements.

### **SNL/NM Groundwater Monitoring Tasks**

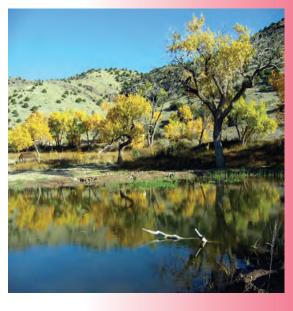
Two groups that conduct groundwater monitoring at SNL/NM are (1) the Environmental Restoration (ER) Project and (2) the Groundwater Protection Program (GWPP). The ER Project conducts groundwater monitoring at five ER Project areas where there is groundwater contamination or the potential for groundwater contamination from surface or near-surface legacy hazardous waste sources. The GWPP conducts general site-wide groundwater surveillance. Additionally, water level data is gathered from DOD/NNSA-owned wells and outside agency wells to determine trends in the regional water table. In FY06, water level measurements were obtained from 141 wells within and immediately outside the boundaries of KAFB, which were used to construct a regional water table elevation map.

SNL/NM's groundwater monitoring is divided into the following project areas:

- GWPP
- Chemical Waste Landfill (CWL)







- Mixed Waste Landfill (MWL)
- Technical Area V (TA-V)
- Tijeras Arroyo Groundwater (TAG) Investigation (TAs I and II and Tijeras Arroyo)
- Burn Site Groundwater (formerly Canyons Area)

### **Site Location and Geologic Setting**

The regional aquifer supplying the City of Albuquerque (COA) and KAFB is located within the Albuquerque Basin. The basin was created by the extension of the Rio Grande Rift that began forming approximately 30 million years ago (Ma) and has since filled with almost three miles of unconsolidated fluvial, alluvial, and windblown sediments. Almost all of the basin fill sediments belong to the Santa Fe Group, which is divided into three units (lower, middle, and upper). The regional aquifer is mostly contained within the upper unit and, to some extent, the middle unit of the Santa Fe Group. The edge of the basin on the east side is defined by the Sandia, Manzanita, and Manzano Mountains, which have uplifted along normal faults. KAFB straddles the east side of the basin and is divided approximately in half by bounding faults. On KAFB, the basin is primarily defined by the north-south trending Sandia fault and the Hubbell Springs fault. The Tijeras fault, a strike-slip fault that trends northeast-southwest, intersects the Sandia and Hubbell Springs faults forming a system of faults collectively referred to as the Tijeras fault complex. The faults form a distinct hydrogeological boundary between the regional aquifer within the basin (approximately 500 feet [ft] below ground surface [bgs]) and the more shallow bedrock aquifer systems within the uplifted areas (generally between 50 to 250 ft bgs).

### **Groundwater Water Quality Monitoring Results**

In FY06, water samples were collected and analyzed from 71 monitoring wells and one spring at SNL/NM by the GWPP and the ER Project. Results from both groups are compared to maximum contaminant levels (MCLs) established by the U.S. Environmental Protection Agency (EPA). GWPP results were also compared to maximum allowable concentrations (MACs) per human health standards for groundwater promulgated by the State of New Mexico Water Quality Control Commission (NMWQCC). All results are discussed in detail in Chapter 4, and data is presented in the attached appendices of this report.

- **GWPP** Annual sampling was conducted in 15 wells and one spring in FY06. Samples were analyzed for dissolved metals, total mercury, volatile organic compounds (VOCs), inorganics (including total alkalinity, major anions, nitrate plus nitrite (NPN), and total cyanide), total phenols, total halogenated organics (TOX), gross alpha and beta, and selected radionuclides. As required by the Compliance Order on Consent (COOC) between the New Mexico Environment Department (NMED) and DOE/NSSA and Sandia Corporation, groundwater samples from four monitor wells, NWTA-MW2, MRN-2, MRN-3D, and SWTA3-MW4 were analyzed for perchlorate using EPA Method 314. No perchlorate was detected above the screening level of 4 micrograms per liter (µg/L). Concentrations of naturally occurring chemical substances exceeded the regulatory criteria for beryllium and fluoride. Fluoride concentrations in excess of the NMWOCC standard of 1.6 milligrams per liter (mg/L) were exceeded in four monitoring wells and Coyote Springs. The National Drinking Water Standard for fluoride is 4 mg/L. The beryllium concentration of 8.05 µg/L in the Coyote Springs water sample exceeded the EPA Primary Drinking Water Standard MCL of 4.0 µg/L. The uranium concentrations of 39 µg/L in the EOD Hill well exceeded the recently promulgated National Drinking Water Standard of 30 µg/L. The EOD Hill well sample also exceeded the MCL for gross alpha. An activity concentration of 8.24 picocuries per liter (pCi/L) of Radium 226 exceeded the established MCL activity for combined radium 226 and 228 of 5 pCi/L in the SFR-2S water sample. Perchlorate was not detected greater than MDL in wells sampled per the COOC. Perchlorate was detected in the EOD Hill well at concentrations of 1.26 mg/L and 1.08 mg/L.
- **CWL** Groundwater monitoring in FY06 was performed during October 2005 and April 2006. Samples were collected from nine monitoring wells. Analytes included Appendix IX VOCs, Appendix IX semi-volatile organic compounds (SVOCs), Appendix IX chlorinated herbicides, Appendix IX metals plus iron, polychlorinated biphenyls (PCBs), cyanide, sulfide, and total dissolved chromium. Of the analytes sampled for at the CWL, none were detected above established MCLs.
- MWL-Groundwater sampling in FY06 consisted of annual sampling for a wide suite of parameters in seven wells. Annual sampling was conducted in April 2006. No parameters in MWL groundwater exceeded EPA MCLs, except chromium. Chromium was detected above the MCL of 0.1 mg/L in monitoring wells

MWL-MW1 and MWL-MW3. The most likely source of chromium is corrosion of the stainless steel screens on the monitoring wells.

- TA-V Quarterly sampling was conducted at 13 wells in FY06. Analytes included VOCs, PDBs, metals, NPN, anions, radionuclides, and analytes useful for evaluating monitored natural attenuation processes. Trichloroethene (TCE) has consistently been detected in one well (LWDS-MW1) in excess of the MCL of 5 µg/L, with a maximum concentration of 15.8 µg/L in FY06. The most likely sources of TCE are the drainfield for the Liquid Waste Disposal System (LWDS) and the TA-V Seepage Pits. TCE was also detected in TAV-MW1 and TAV-MW6 at levels that exceed the MCL, with maximum concentrations of 5.81 µg/L and 6.34 µg/L, respectively. In FY06, NPN levels were elevated above the nitrate MCL of 10 mg/L in LWDS-MW1 and TAV-MW1, with maximum concentrations of 13.3 mg/L and 12.0 mg/L, respectively.
- TAG Wells in the TAG Investigation area are completed either in the regional aquifer or a localized perched groundwater system (GWS). Ten perched GWS wells and eleven regional monitoring wells were sampled either quarterly, semi-annually, or annually in FY06. TCE was identified in two of the perched GWS wells at a level slightly above the MCL of 5.0  $\mu$ g/L. A maximum concentration of 7.87  $\mu$ g/L was found in WYO-4, and a maximum concentration of 5.07  $\mu$ g/L was found in well TA2-W-19. Nitrate is also a contaminant of concern (COC) in the TAG Investigation area, and samples from five wells (four perched, one regional) showed nitrate concentrations exceeding the MCL of 10 mg/L. The maximum nitrate concentration detected was 29.0 mg/L in TJA-4.
- Burn Site Groundwater In FY06, six monitoring wells were sampled either quarterly or semi-annually. The Burn Site Groundwater study includes the general vicinity associated with the active Burn Site Facility in Lurance Canyon. This facility conducts thermal tests using jet fuel, gasoline, and diesel fuel. Low levels of high explosives (HE), petroleum products (diesel-range organics and gasoline-range organics), and SVOCs have been detected in monitoring wells on site. Other analytes sampled for included VOCs, metals, radionuclides, major ions, perchlorate, and nitrate. Nitrate has been detected above the MCL in one well, CYN-MW6. In FY06, the highest level of nitrate was found in CYN-MW6 at 32.6 mg/L, as compared to the MCL of 10 mg/L. All detected SVOCs, HE, and petroleum products have been at trace levels and below standards, where established. The samples from CYN-MW4 and CYN-MW8 exceeded the MCL for gross alpha at activities of 37.8  $\pm$  11.1 and 34.0  $\pm$  10.6 pCi/L, respectively. Perhclorate samples were collected in three wells required by the COOC. Perchlorate was detected in CYN-MW6 only, with a maximum concentration of 0.00752 mg/L.

### **Water Level Elevation Monitoring**

Water levels measured in 141 wells owned by DOE/NNSA, KAFB, COA, and the State of New Mexico were analyzed, and representative values were used to construct a contour map of the regional water table for KAFB and its immediate vicinity. The contour map represents the regional water table in September and October of 2006. In addition, water levels from the same period of the previous year were used to construct a map of changes in the regional water table over the previous 12 months. A prominent water table depression or trough is present on the west side of KAFB extending southward from the water supply well fields located along the northern KAFB boundary to the northern boundary of the Pueblo of Isleta reservation. Water table declines of up to 1.2 feet per year (ft/yr) occur in the southern part of the trough. The groundwater elevation gradients demonstrated by the contour lines indicate groundwater flow westward from the direction of TA III toward the axis of the trough, and then northward to the groundwater withdrawal areas along the northern KAFB boundary.

A similar procedure was used to construct a contour map of the elevation of the first water encountered in the perched GWS that underlies the north-central part of KAFB. Water level measurements obtained from 15 monitor wells completed in the perched GWS were used to create a first water elevation map. The shape and location of the contours for the 2006 water level elevation differ very little from those of the previous year. The contours indicate groundwater flow in the perched GWS is to the southeast. Similarly, the differences in water elevations between the same periods in 2005 and 2006 in the same wells were contoured to demonstrate the changes in the perched GWS over the previous 12 month period. Water level changes indicate continued draining of the system to the southeast where the system likely merges with the regional GWS.

Hydrographs for 97 monitor wells are presented to demonstrate the trend in water level elevations over

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the previous three years. The data are analyzed using a linear regression trending procedure to provide a quantitative measure for the changes in water level elevation.

The precipitation recorded at the Albuquerque International Airport (AIA) during the FY06 period was 11.56 in. The 30 year annual norm for precipitation at the same location adjacent to KAFB is 9.47 in. Measurements for 3 locations on KAFB are presented to demonstrate the variable distribution of precipitation on KAFB.

The water supply for SNL/NM is provided by KAFB production wells located in the northern portion of the KAFB reservation. Groundwater withdrawal from the KAFB wells and a large COA well field immediately north of KAFB dominate the dynamics of the groundwater system under KAFB. In the period of FY06, annual groundwater production by KAFB was 1,083 million gallons (gal) (3,323 acre/feet [ac/ft]).

SNL/NM is managed and operated for the DOE/NNSA. DOE/NNSA and Sandia Corporation conduct general groundwater surveillance on a site-wide basis and specific groundwater monitoring at ER Project sites with groundwater issues. The purpose of this document is to report SNL/NM groundwater monitoring results for FY06, which extended from October 1, 2005 to September 30, 2006.

### **Chapter One**

### introduction

SNL/NM is located on KAFB. The groundwater regime at KAFB is divided into two distinct areas. The regional groundwater underlying the majority of KAFB is within the Albuquerque Basin (also known as the Middle Rio Grande Basin) and is the primary aquifer supplying KAFB and COA. A separate shallow GWS exists within the foothills and mountains on the east side of KAFB where the basin margin is delineated by uplifted blocks along north and northeast trending faults. DOE/NNSA and Sandia Corporation conducts groundwater monitoring within both groundwater regimes to determine potential impacts to groundwater sources resulting from its current operations or past activities. The following two groups conduct groundwater monitoring at SNL/NM.

The **ER Project** conducts groundwater monitoring at five general ER Project areas where there is groundwater contamination or the potential for groundwater contamination from surface or near surface contamination. ER Project groundwater monitoring wells are located upgradient and downgradient of known surface contamination and potential sources for groundwater contamination.

The **GWPP** conducts general groundwater surveillance monitoring through a network of wells on KAFB, most of which are located in areas near SNL/NM past and/ or present operational sites. General groundwater surveillance monitoring allows for a determination of the impact, if any, of operations at SNL/NM facilities.



Echinocerus triglochidatus at SNL/NM

#### **Regulatory Drivers and DOE Orders**

Groundwater monitoring performed by the GWPP and the ER Project are directed by three different sets of regulations and requirements. General groundwater surveillance conducted by the GWPP is directed by DOE Order 450.1, Environmental Protection Program (DOE 2005). This DOE order establishes the criteria and guidelines for developing general Groundwater Protection Management Programs for all DOE facilities.

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Groundwater monitoring results from both the GWPP and the ER Project are compared to federal and state water quality standards and DOE drinking water guidelines, where established.

In addition to DOE orders, ER sites at SNL/NM are identified, characterized, and remediated (if required) under Resource Conservation and Recovery Act (RCRA) regulations. In 1984, RCRA was supplemented by the Hazardous and Solid Waste Amendments (HSWA), which specifically addressed Solid Waste Management Units (SWMUs).

At SNL/NM, SWMUs are regulated under the HSWA module of the RCRA permit. In the HSWA module, a SWMU is defined as "any discernible unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste." Monitoring and/or corrective action requirements generally are determined on a SWMU-specific basis following a site investigation. Some groundwater monitoring activities (e.g., TAG, Burn Site, and TA-V investigations) are more regional in nature and have historically been conducted by the ER Project as Voluntary Corrective Measures (VCM).

Three of the ER Project groundwater investigations are under the direction of the NMED Order (NMED 2004). The TAG, TA-V, and Burn Site Groundwater area investigations must comply with requirements set forth in the NMED Order for site characterization and the development of a Corrective Measure Evaluation (CME) for each of these sites. The NMED Order also contains schedules that define dates for the delivery of plans and reports related to the TAG, TA-V, and Burn Site Groundwater areas, and, accordingly, DOE/NNSA and Sandia Corporation were required to complete a CME Report for the TAG, TA-V, and Burn Site Groundwater areas by September 30, 2005. NMED is the regulatory agency responsible for enforcing the requirements identified in the NMED Order for each of the three CMEs. In FY04, CME Work Plans were submitted to the NMED for each of these three sites that summarize prior work, identify potential source areas, and conduct screening of technologies that result in identification of remedial alternatives that will undergo a full evaluation during the CME process.

#### **Groundwater Levels**

Monthly and quarterly measurements of depth to water are taken at wells owned by DOE/NNSA, the Air Force Installation Restoration Program (IRP), COA, and others. These data are converted to water level elevations. Water table surface maps of KAFB and the immediate vicinity are constructed from the water level elevation data. Water level data are also used to interpret the groundwater system characteristics, such as groundwater flow directions, groundwater gradients, and regional water level declines. Currently, water levels at a few KAFB wells within the Albuquerque Basin are declining at an average rate of 1.2 ft/yr. This rate fluctuates significantly in areas near production wells where heavy production varies with seasonal water demand. Water level data are also used to identify the extent of the perched GWS present on KAFB that lies above the regional aquifer.

### 1.1 Report Organization

The six chapters of this report cover the following topics:

Chapter 1 – The purpose and overview of SNL/NM groundwater monitoring activities;

**Chapter 2** – The regional geologic and hydrologic settings as they pertain to the groundwater regime in the vicinity of KAFB;

**Chapter 3** – The well networks of SNL/NM including location maps, sampling protocol overviews, well monitoring histories, and pertinent regulatory drivers;

**Chapter 4** – Groundwater monitoring results, including trend graphs for the GWPP and the ER Project that note any results exceeding established standards in federal or state regulations or DOE guidelines;

Chapter 5 – Construction of groundwater surface elevation maps for the regional aquifer and perched GWS at KAFB. Interpretation and implication of water level elevation contours. Construction and discussion of contour maps of changes in water level elevations from the preceding FY. Analysis of groundwater level trends, presented as hydrographs, over the past 36 months for specific locations throughout KAFB; and

**Chapter 6** – References.

### 1.2 Groundwater Monitoring at SNL/NM

The GWPP works in concert with the ER Project as part of the SNL/NM corporate-wide Groundwater Protection Management Program. An overview of the groundwater monitoring activities conducted by the GWPP and the ER Project are described below.

### 1.2.1 GWPP Scope

The primary function of the GWPP is groundwater surveillance monitoring, which is conducted by the Groundwater Surveillance Task. Groundwater surveillance serves the following purposes:

- Establishes baseline water quality and groundwater flow information for the groundwater system at SNL/NM;
- Determines the impact, if any, of SNL/NM operations on the quality and quantity of groundwater; and
- Demonstrates compliance with all federal, state, and local groundwater requirements and DOE orders.

Generally, from year to year, the GWPP samples from the same or nearby surveillance wells. Occasionally, wells may be added or removed from the surveillance network based on operational changes, such as facility start-ups or closures. All groundwater samples collected by the GWPP are sent to off-site laboratories for analysis. Analytical laboratory procedures are consistent with EPA analytical methods (EPA 2006). Analytical results for groundwater samples are compared to regulatory standards established by the EPA (40 CFR 141) and the State of New Mexico (20 NMAC 6.2). Groundwater sample results from each year are compared to historical values to determine if there are differences that may indicate a trend of increasing or decreasing contaminant levels. Early detection of increasing trends—even changes that are far below regulatory action levels—allow for proactive identification of potential contaminant sources and institute mitigation measures, as needed. In turn, trends showing decreasing levels or unchanging baseline levels demonstrate the success of SNL/NM groundwater management practices. In FY06, the GWPP sampled 15 wells and one spring.

The GWPP also provides well tracking, routine inspections, and oversight for all DOE/NNSA-owned wells. This includes ER Project wells, GWPP surveillance wells, and characterization boreholes. Working in cooperation with the ER Project, wells are tracked in a Well File Database to record pertinent information such as well location, well ownership, maintenance history, completion date, and other construction information. Annual well inspections verify that wells are being properly maintained and in good working order. If a well is found in need of repair, the owner is contacted and corrections are made; or, the well may be proposed for plugging and abandonment.

### 1.2.2 ER Project

The SNL/NM ER Project was established to identify, assess, and remediate sites potentially contaminated by past spill, release, or disposal activities. Additionally, the ER Project identifies the nature and extent of contamination present at a site. As part of this process, groundwater characterization is implemented at ER sites where there is a potential for groundwater contamination. ER Project wells are monitored on a quarterly, semi-annual, or annual basis, depending on the site and the nature of the contaminant.

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Groundwater monitoring and characterization activities are grouped into the following project areas:

- CWL
- TAG Investigation
- MWL
- Burn Site Groundwater (formerly Canyons)
- TA-V

### **Regulatory Oversight**

The NMED Hazardous Waste Bureau (HWB) provides regulatory oversight of the ER Project, as well as implements and enforces federal regulations mandated by RCRA. NMED has adopted federal regulations by reference. The management of ER sites are permitted on the SNL/NM RCRA Part B Operating Permit, "Special Conditions Pursuant to the 1984 Hazardous and Solid Waste Amendments (HSWA) to RCRA for Sandia National Laboratory" (NMED 1993). The COOC between NMED, DOE and Sandia Corporation was finalized in April 2004 and transferred regulatory authority for the investigation of SWMUs and areas with groundwater contamination from the HWSA module to the COOC. Following the receipt of an NMED certificate of completion for a SWMU, or group of SWMUs, is the submission of a request for a Class 3 Permit Modification for Corrective Action Complete. Where NMED identifies controls (e.g., institutional controls, engineered barriers, and long-term monitoring, operation and maintenance) for Corrective Action Complete, those controls are enforceable under the Permit.

This chapter provides an overview of the important features of the geology and hydrology relevant to the groundwater system at KAFB, with a focus on operational areas at SNL/NM. Because surface and subsurface geologic features play an important role in the occurrence and movement of groundwater, as well as influencing potential pathways for contaminant migration, the characterization of the hydrogeologic system at KAFB has received extensive study. The ER Project has compiled an in depth study of the hydrogeologic setting at KAFB. The findings are detailed in the *Sandia National Laboratories*, *Site-Wide Hydrogeologic Characterization Project Report* (SNL 1998).

# Chapter Two hydrogeological setting

### 2.1 Geologic Setting

### Albuquerque Basin

The Albuquerque Basin (also known as the Middle Rio Grande Basin) is one of a series of north-south trending basins that was formed during the extension of the Rio Grande Rift. Rift formation initiated in

the late Oligocene and continued into the early Pleistocene, with the primary period of extension occurring between 30 and 5 Ma. Tectonic activity, which began uplifting the Sandia, Manzanita, and Manzano Mountains, was most prevalent from about 15 to 5 Ma (Thorn et al. 1993). The rift today extends from southern Colorado to northern Mexico. The vertical displacement between the rock units exposed at the top of Sandia Crest and the equivalent units located at the bottom of the basin is over three miles



Mixed Waste Landfill Drilling Operations

As shown in Figure 2-1, the structural boundaries of the Albuquerque Basin

are (1) the Nacimiento uplift and the Jemez Mountains to the north; (2) the La Bajada Escarpment to the northeast; (3) the Sandia, Manzania, Manzano, and Los Pinos uplifts to the east; (4) the Joyita and Socorro uplifts to the south; (5) the Ladron and Lucero uplifts to the southwest; and (6) the Rio Puerco Fault belt to the west. The basin is approximately 3,000 square miles (sq mi) in area.

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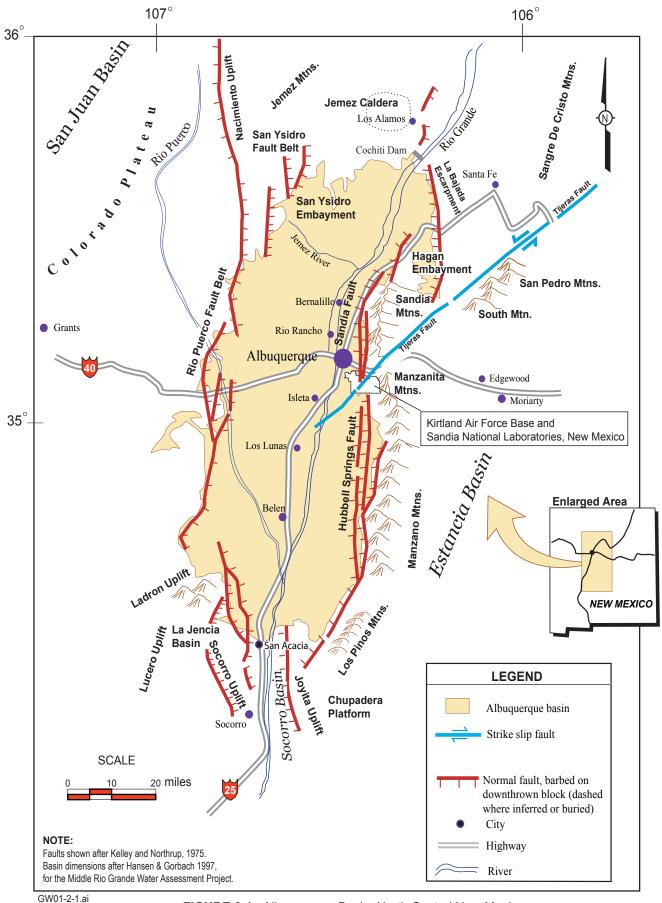


FIGURE 2-1. Albuquerque Basin, North Central New Mexico

Over the last 30 Ma, the ancestral Rio Grande has meandered across the valley depositing sediments in broad stream channels and flood plains derived from sources to the north. The basin also filled with eolian deposits and alluvial materials shed from surrounding uplifts (Hawley and Haase 1992).

### Santa Fe Group

As the Rio Grande Rift continued to form, the Albuquerque Basin subsided and filled with a sequence of sediments several miles thick, almost all of which is from the Santa Fe Group. The Santa Fe Group was deposited contemporaneously with rift formation (Oligocene through Pleistocene) and is up to 14,500 ft (4,420 meters [m]) thick at the center of the basin. The entire sequence consists of unconsolidated sediments, which thin toward the edge of the basin and are truncated by normal faults at the bounding uplifts. Units overlying the Santa Fe Group include Pliocene Ortiz gravel and Rio Grande fluvial deposits, which are inter-bedded with Tertiary and Quaternary basaltic and pyroclastic materials.

The Santa Fe Group is divided into three units.

The **lower unit** (Hawley and Haase 1992) was deposited from 30 to 15 Ma and is dominated by piedmont-slope (sediment debris flows and alluvial fan material), eolian, and basin floor deposits. The deposition of the lower unit occurred within an internally drained (closed) basin and before significant uplift of adjacent mountain ranges.

The **middle unit** (Hawley and Haase 1992) was deposited from 15 to 5 Ma during the tectonically active period that resulted in the uplift of the ranges flanking the basin. Several major river systems from the north, northeast, and southwest carried in significant fluvial deposits and terminated within the basin. These rivers probably flowed into playa lakes at the southern end of the basin (Lozinsky et al. 1991).

The **upper unit** (Hawley and Haase 1992) was deposited 5 to 1 Ma and is characterized by piedmont-slope deposits inter-tonguing with ancestral river and flood plain (basin floor) deposits. The fluvial deposits mark the boundary 5 Ma when the ancestral Rio Grande became a through-flowing river system and formed a large aggradational plain in the central basin area. This upper unit is a heterogeneous mix of coarse to fine-grained sands, silts, and clays with highly variable bed thicknesses.

### Regional Basin Aquifer

The upper unit of the Santa Fe Group, and to some extent the middle unit, contain the most productive portion of the regional aquifer that supplies groundwater to COA and KAFB. In general, the high degree of heterogeneity and anisotropy within the upper unit results in a wide variety of hydraulic properties on a local scale. Groundwater flow rates and directional hydraulic conductivity are controlled in large part by buried channels and other bedding features (SNL 1998).

### **Faults**

As shown in Figure 2-2 and Figure 2-3, the four primary faults on the east side of KAFB are (1) the Sandia fault, (2) the West Sandia fault, (3) the Hubbell Springs fault, and (4) the Tijeras fault. The Sandia fault is thought to be the primary boundary between the Sandia Mountains and the Albuquerque Basin and shows evidence of Quaternary motion (Kelley 1977). The Hubbell Springs fault extends northward from Socorro County and terminates on KAFB in the vicinity of the Tijeras fault. It forms a very recognizable fault scarp called the Hubbell Bench with offsets of 15 to 100 ft (5 to 30 m) (Machette 1982). The Sandia and the Hubbell Springs faults are north-south trending, down-to-the-west, en-echelon normal faults bounding the east side of the Albuquerque Basin. Field observations indicate Quaternary movement along the Hubbell Springs Fault (Lozinsky et al. 1991, Woodward 1982, Kelley and Northrup 1975, and Kelly 1977). The Tijeras fault is an ancient strike-slip fault that developed in the Precambrian or early Paleozoic (approximately 600 Ma) and was reactivated in association with the Laramide Orogeny during the Cretaceous (Kelley 1977). The fault

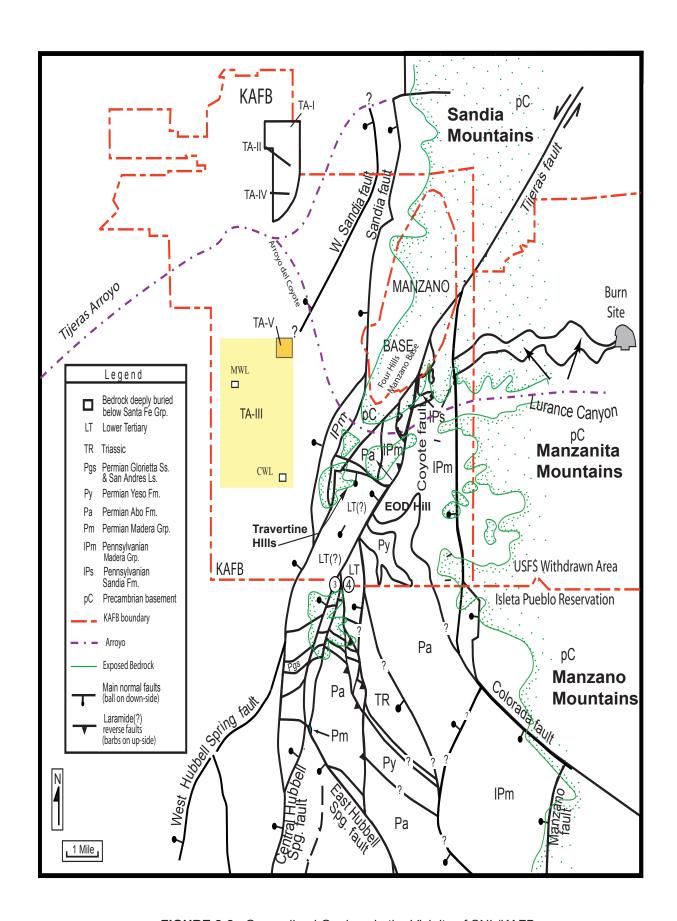


FIGURE 2-2. Generalized Geology in the Vicinity of SNL/KAFB

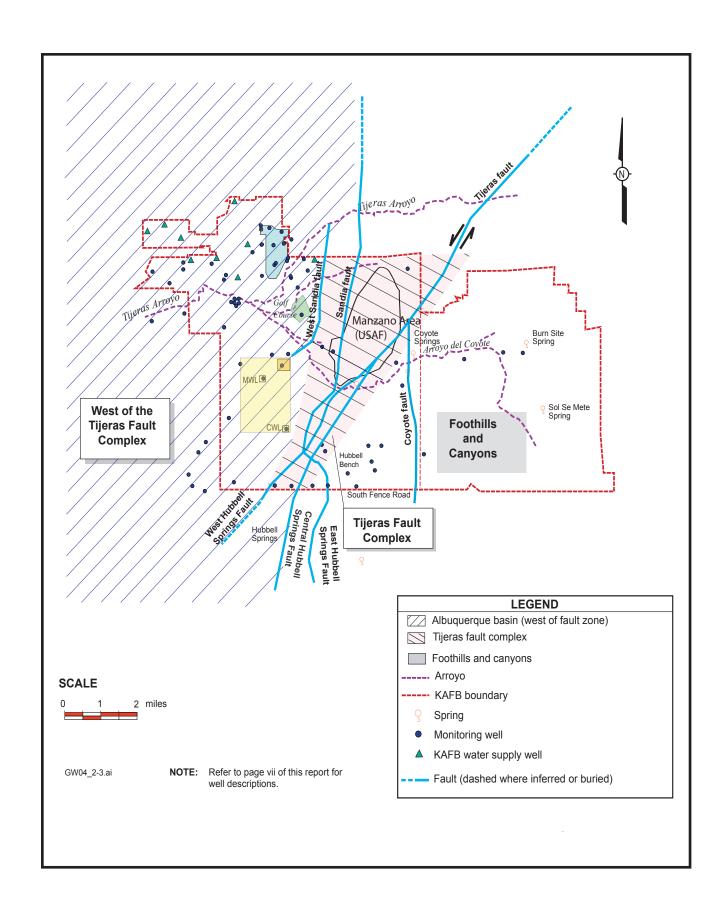


FIGURE 2-3. Hydrogeologically Distinct Areas Primarily Controlled by Faults

also demonstrates Quaternary movement (Kelson et al 1999; GRAM 1995). This fault has been traced at least as far north as Madrid, New Mexico and continues into the Sangre de Cristo Mountains as the Cañoncito fault. Preferential erosion along the fault formed Tijeras Canyon, which divides the Sandia and Manzanita Mountains. The fault trends southwest from Tijeras Canyon, intersects the northwest boundary of KAFB, and crosses KAFB east of Manzano Base. (Manzano Base occupies an uplift of four peaks defined by the Tijeras fault on the east side and the Sandia fault on the west side.) Strike-slip motion along the Tijeras fault is thought to be expressed by southwesterly movement of the northern block (left lateral). The Sandia, Hubbell Springs, and Tijeras faults converge near the south end of TA III. This complicated system of faults, defining the east edge of the basin, is referred to collectively as the Tijeras fault complex.

### 2.2 Groundwater Hydrology

### **Groundwater Systems**

Figure 2-3 shows three different hydrogeologic regions: the Albuquerque Basin, the Tijeras fault complex, and the foothills and canyons region. The primary division is between the east and west sides of the Tijeras fault complex. The Tijeras fault complex is a transitional zone. This division marks the boundary between the two regional aquifer systems. It is important to note that the boundaries shown on the map are somewhat arbitrary, but identify the approximate hydrologic settings.

A deep aquifer is present within the Albuquerque Basin where the regional water table lies at approximately 500 ft (152 m) below the surface.

There are also multiple perched GWSs lying above the regional aquifer. The perched GWSs extend south to the KAFB Golf Course area, north to portions of TA I, west of TA II, and east of the KAFB Landfill. Possible explanations for the existence of these perched GWSs are inter-arroyo recharge, irrigation of the golf course and other vegetated areas, water leakage from utility distribution lines, and infiltration from an unlined sewage lagoon system (SNL 1998).

East of the Tijeras fault complex, a thin layer of alluvium covers the bedrock. The hydrogeology in this area is poorly understood due to the complicated geology created by the fault systems. On the east side of the Tijeras fault complex the depth to groundwater ranges from about 50 to 200 ft (15 to 61 m). Most of the water supply and monitoring wells east of the faults are completed in fractured bedrock at relatively shallow levels and produce modest yields of groundwater (SNL 1998).

### **Groundwater Flow**

Groundwater in the bedrock aquifers on the east side of KAFB generally flows west out of the canyons toward the Tijeras fault complex. The groundwater gradient is relatively steep, 0.03 ft/ft, crossing the Tijeras fault complex from east to west. The elevation change in the water levels is 350 ft (106 m) over 15,840 ft (4,828 m). Within the sediments of the Albuquerque Basin, the gradient flattens out quickly to about 0.005 ft/ft.

The historic direction of regional groundwater flow within the basin was westward from the mountains toward the Rio Grande. However, due to groundwater pumping by KAFB and COA, a depression in the water table has created a broad trough directing flow towards the well fields at the northwest end of KAFB. The impact of the seasonal variation in water production by both KAFB and COA wells can be observed as fluctuations in the water levels of some SNL/NM and KAFB monitoring wells as far east and south as TA III. A water table surface map and examination of water level trends are discussed in Chapter 5 of this report.

### 2.3 Surface Water Hydrology

The Rio Grande, located approximately eight miles west of KAFB, is the major surface hydrologic feature in central New Mexico. The Rio Grande originates in the San Juan Mountains of Colorado and terminates at the Gulf of Mexico, near Brownsville, Texas. The Rio Grande has a total length of 1,760 miles (2,832 kilometers [km]) and is the third longest river system in North America.

Surface water (with the exception of several springs) within the boundaries of KAFB is found only as ephemeral streams that flow for short periods from runoff after storm events or during the spring melt of mountain snowpacks. The primary surface water feature that drains the eastern foothills on KAFB is the Tijeras Arroyo. The Arroyo del Coyote joins Tijeras Arroyo just south of TA IV (about one mile west of the golf course [Figure 2-3]). Both Tijeras Arroyo and Arroyo del Coyote carry significant runoff after heavy storms that usually occur from July through October. The Tijeras Arroyo, above the confluence with Arroyo del Coyote, drains about 80 sq mi (207 sq km), while Arroyo del Coyote drains about 39 sq mi (101 sq km) (U.S. Army Corps of Engineers 1979). The total watershed for the Tijeras Arroyo, which includes the Sandia and Manzanita Mountains and portions of KAFB, is approximately 126 sq mi (336 sq km). All active SNL/NM facilities are located outside the 100 year floodplain of both Tijeras Arroyo and Arroyo del Coyote (U.S. Army Corps of Engineers 1979).

### **Springs**

Several springs on KAFB are associated with the uplifts on the east side of the basin: (1) Coyote Springs and G-Spring within Arroyo del Coyote, (2) Burn Site Spring in Lurance Canyon, and (3) Sol se Mete Spring within the Manzanita Mountains. Coyote Springs and Sol se Mete are perennial springs (continuously flowing), while the others are ephemeral springs. Hubbell Springs (a perennial spring) is located just south of KAFB on Isleta Pueblo. The wetland areas created by these springs, though very limited in extent, provide a unique ecological niche in an otherwise arid habitat.

### **Groundwater Recharge**

Groundwater recharge in the vicinity of KAFB is primarily derived from the eastern mountain front and within the major arroyos. However, the amount of recharge occurring in the foothills and canyons is not well characterized. The estimated recharge for that portion of Tijeras Arroyo on KAFB is estimated to be up to 2.2 million ft³/yr (50 ac-ft/yr) (SNL 1998). The best estimate for the groundwater recharge associated with Arroyo del Coyote is 0.4 million ft³/yr (9.2 ac-ft/yr). Infiltration studies conducted by the ER Site-Wide Hydrologic Characterization (SWHC) Task determined that recharge is negligible due to the high rate of evapotranspiration for most other areas on KAFB, generally alluvial slopes and flat areas within the basin (SNL 1998).

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This chapter provides background information for the groundwater monitoring and surveillance programs conducted by the GWPP and the ER Project at SNL/NM. An overview of the regulatory drivers, site and groundwater monitoring histories, current well networks, and sampling protocols are described in each section. Figure 3-1 shows the locations of active DOE/NNSA monitoring wells. The map also shows monitoring wells and water production wells owned by KAFB and COA.

### **Chapter Three**

## Monitoring Network Information and Sampling Protocols

### 3.1 Groundwater Protection Program

*Principal Contaminants of Concern (COCs) for Groundwater Contamination* - Primary drinking water contaminants, NMWQCC groundwater contaminants, and perchlorate (NWTA3-MW2, MRN-2, MRN-3D, EOD Hill, and SWTA3-MW4).

*Monitoring Network* - Fifteen wells and one spring were monitored during FY06. *Sampling Frequency* - Annually.

### 3.1.1 Groundwater Surveillance Task Well Network

The Groundwater Surveillance Task, which is a component of the GWPP, collects data to determine and document the effects of SNL/NM's operations on groundwater quality and quantity. Groundwater surveillance monitoring allows SNL/NM to detect potential contaminants in groundwater, which may derive from SNL/NM facilities, off-site sources, or naturally-occurring materials present in the local rocks and soils. Figure 3-2 shows the location of the current surveillance network of 15 wells and one spring. The surveillance wells (including the spring) are located on DOE/NNSA and KAFB property. SWTA3-MW4 was installed in the southwest corner of TA-III in FY05. The first annual groundwater sampling of the well occurred in FY06.

Table 3-1 lists the installation date for each well and the type of surveillance conducted at the well in FY06.

The Groundwater Surveillance Task began quarterly groundwater sampling in 1991. Starting in March 1995, quarterly surveillance monitoring was changed to annual surveillance monitoring. Prior to each annual sampling event, the Sampling and Analysis Plan (SAP) is updated to provide specific guidance on sampling methods, selected sampling parameters, and selected wells (SNL 2006a).



Snowy day at a SNL/NM monitoring well

Sandia National Laboratories, New Mexico

### 3.1.2 Regulations

SNL/NM is required by DOE Order 450.1 to develop and implement a Groundwater Protection Management Program (DOE 2005). Groundwater surveillance is one element within the DOE Environmental Protection Program. The DOE order lists the following requirements for groundwater monitoring programs:

- Obtain data to determine **baseline conditions** of groundwater quality and quantity;
- Demonstrate compliance with and implementation of all applicable **regulations** and DOE orders;
- Provide **data** to detect groundwater pollution or contamination;
- Provide a reporting mechanism for detected groundwater pollution or contamination;
- Identify existing and potential groundwater **contamination sources** and maintain surveillance of these sources; and
- Provide data for decisions concerning **land disposal practices** and the management and protection of groundwater sources.

In addition to numerous other requirements, SNL/NM GWPP is required by the COOC to conduct quarterly groundwater sampling and analysis for perchlorate in monitoring wells NWTA3-MW2, MRN-2, and MRN-3D. Also, per the COOC, any newly constructed well will require 4 continuous quarters of sampling and analysis for perchlorate. SWTA3-MW4 was the first well installed subsequent to the implementation of the NMED Order and was sampled for perchlorate quarterly in FY06. The protocol stipulates EPA Method 314 for the analysis and establishes an action level of 4  $\mu$ g/L. If the sample results indicate the presence of perchlorate at or in excess of 4  $\mu$ g/L, SNL/NM is required to evaluate the nature and extent of perchlorate contamination and report the results in a RCRA Corrective Measures Evaluation (CME). Sampling and analysis of the non-compliant well will continue until at least four consecutive non-detects are obtained.

**TABLE 3-1.** Monitoring Wells in the GWPP Network for FY06

Well (1)	Installation Year	WQ	WL	Owner	Comments
Coyote Springs		√	N/A	KAFB	Perennial spring in Arroyo del Coyote, east of Manzano Base
EOD Hill	Unknown	$\sqrt{}$	$\sqrt{}$	DOE/NNSA	East of TA-III, within Tijeras Fault Zone
Eubank 1	Unknown	1		COA	East boundary TA-1
Greystone MW-2	2002	$\sqrt{}$	$\sqrt{}$	DOE/NNSA	West of Coyote Springs at the Greystone Ranch Site
MRN-2	1995	√		DOE/NNSA	Magazine Road North - Well 2
MRN-3D	2003			DOE/NNSA	Magazine Road North - Well 3 deep
NWTA3-MW2	2000			DOE/NNSA	West boundary TA-3
NWTA3-MW3D	2003	√	$\checkmark$	DOE/NNSA	West boundary TA-3
PL-2	1994	1		DOE/NNSA	Deep Well Adjacent to PL-3
PL-3	1994	$\sqrt{}$	$\sqrt{}$	DOE/NNSA	Power Line Road – Well 3
SFR-2S	1992	$\sqrt{}$	$\sqrt{}$	DOE/NNSA	South Fence Road – Well 2, shallow
SFR-4T	1993	$\sqrt{}$	$\sqrt{}$	DOE/NNSA	South Fence Road – east of Tijeras Fault
SWTA3-MW2	2002	√	$\sqrt{}$	DOE/NNSA	SW Corner TA-3
SWTA3-MW3	2004	√		DOE/NNSA	SW Corner TA-3
SWTA3-MW4	2005	√	√	DOE/NNSA	SW Corner TA-3, water table
TRE-1	1995			DOE/NNSA	Thunder Road East – Well 1

**NOTE** (1) Refer to page xi of this report for well descriptions.

Checkmarks in the water quality (WQ) and water level (WL) columns indicate WQ sampling

and WL measurements in FY06. COA = City of Albuquerque

KAFB = Kirtland Air Force Base N/A = not applicable

SNL/NM = Sandia National Laboratories, New Mexico GWPP = Groundwater Protection Program

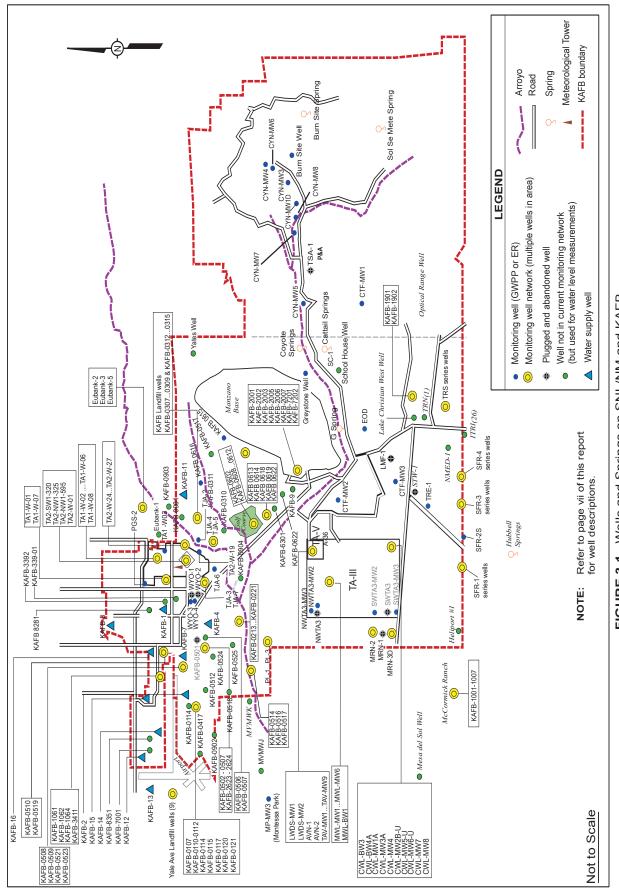


FIGURE 3-1. Wells and Springs on SNL/NM and KAFB

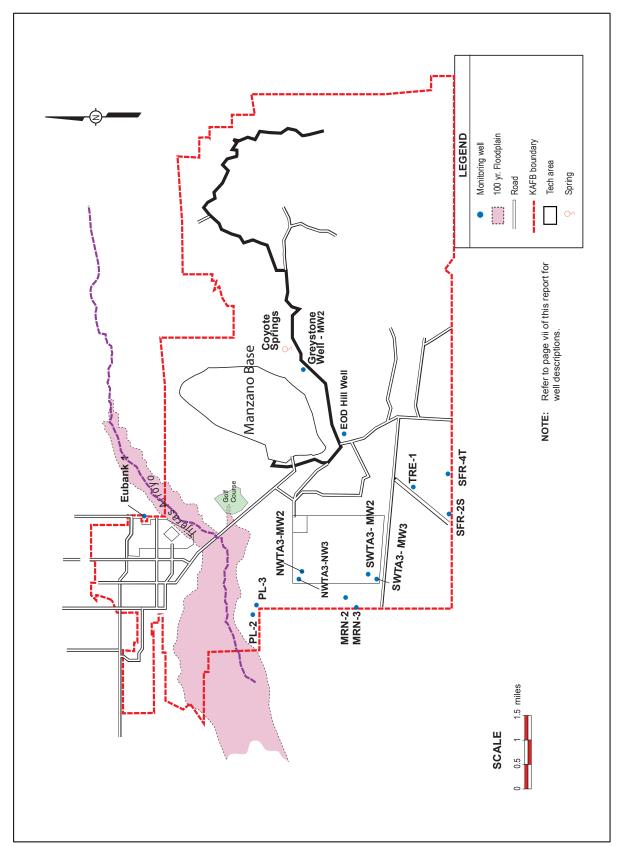


FIGURE 3-2. Groundwater Protection Program (GWPP) Water Quality Network

### 3.1.3 Sampling Protocols

The GWPP monitoring procedures, as conducted by the Groundwater Surveillance Task, are consistent with procedures identified in the EPA technical enforcement guidance document (EPA 1986). An overview of the GWPP sampling and data collection procedures is discussed in the following pages.

### **Field Water Quality Measurements**

Field water quality measurements are made at the time of sample collection (Table 3-2). Groundwater is pumped to the surface and through a flow-through cell containing measurement probes for various field instruments. Consecutive measurements are made of temperature, pH, and specific conductance (SC) until these values are within the acceptance range of the stabilization parameters shown in Table 3-2. Stability indicates the effectiveness of the well purge in removing stagnant water from the well, and a representative groundwater sample can then be collected. In addition to groundwater stability measurements, other field parameters measured include turbidity, alkalinity, dissolved oxygen, and oxidation-reduction potential  $(E_{\rm H})$ .

### Sample Collection and Analysis

Groundwater samples are collected using a nitrogen gas powered portable piston pump (Bennett<sup>TM</sup>). For wells where the casing size is too small to accept the portable pump, a disposable bailer is used (Appendix A, Table GWPP-A9). Monitor well NWTA3-MW2 is equipped with a dedicated low-flow sampling pump. With the exception of samples collected for VOC, mercury, and perchlorate analysis, samples are filtered through a 0.45-micron cartridge filter inserted in the pump discharge line. Samples are filtered to determine dissolved constituents in the groundwater to compare to NMWQCC groundwater standards, which are based on dissolved contaminants (20 NMAC 6.2). Filtered groundwater samples collected by a bailer are first poured into a clean 5-gallon glass container, passed through a filter cartridge using a peristaltic pump, and then collected in the sample container. Annual sampling is conducted for metals, VOCs, inorganics including nitrates, and radiological constituents. Four wells, MRN-2, MRN-3D, NWTA3-MW2 and SWTA3-MW4 were analyzed for perchlorate per the requirements of the COOC. EOD Hill groundwater samples were also analyzed for perchlorate to confirm the results of the previous sample analyses. Results are listed in Appendix A and discussed in Section 4.2.

### Quality Assurance (QA) and Quality Control (QC) Procedures

SNL/NM's Sample Management Office (SMO) processes environmental samples collected by both the GWPP and the ER Project. The SMO reviews the SAP, orders sample containers, issues sample control and tracking numbers, tracks the chain-of-custody, and reviews analytical results returned from the labs for laboratory contract compliance (SNL 2003a). All groundwater samples are analyzed by off-site laboratories using EPA specified protocols.

TABLE 3-2. Field Parameters Measured at the Well Head

Field Parameter	Comments
•Potential of hydrogen (pH)	Stability measure: Four consecutive measures within 0.1 pH units
•Temperature (°C)	Stability measure: Four consecutive measures within 1° Celsius
•Specific Conductance (SC) (mmho/cm)	Stability measure: Four consecutive measurements within 5%
•Turbidity (NTU)	Measured in nephelometric turbidity units (NTUs)
•Alkalinity*	Measured in milliliters of calcium carbonate (ml CaCO3). Alkalinity titrations are performed in the field at the time of sample collection.
•Dissolved Oxygen (DO)	Percentage of saturation value and/or measured in milligrams per liter (mg/L)
•Oxidation-Reduction Potential (EH)	Measured in millivolts (mV)

NOTE: \*Alkalinity results for field measurements are provided in Appendix A, Table GWS-A1 and laboratory derived alkalinity values are reported in Table GWS-A3 for comparison.

QC samples are collected in the field at the time of environmental sample collection. Field QC samples may include equipment blanks, duplicate samples, split samples, and trip blanks. Field QC samples are used to monitor the sampling process. Equipment blanks are used to verify sampling equipment decontamination procedures. Duplicate samples are used to measure the precision of the sampling process. Split samples are used to verify the performance of the analytical laboratory. Trip blanks are used to determine if VOCs contaminated the sample during preparation, transportation, or handling prior to receipt by the analytical laboratory. QC samples are also prepared at the laboratory to determine if contaminant chemicals are introduced in laboratory processes and procedures. These include method blanks, laboratory control samples (LCSs), and matrix/surrogate spikes. Table 3-3 shows the seven types of QC samples that accompany groundwater quality samples in the sampling and analysis process. Reported laboratory analytical and QC data are reviewed against QA requirements specified in the data validation procedure (SNL 2003b).

### 3.2 Chemical Waste Landfill (CWL)

Primary COCs - TCE and chromium.

Monitoring Network - Nine monitoring wells were sampled in FY06.

Sampling Frequency - Semi-annual (modified): October 2005 and April 2006.

### 3.2.1 Site Background and Well Network

### **Site Background Information**

The CWL is a 1.9-acre former disposal site at the southeast corner of TA-III. From 1962 until 1981, the CWL was used for the disposal of chemical, radioactive, and solid waste generated by SNL/NM research activities. From 1981 through 1985, only solid waste was disposed of at CWL. In addition, the CWL was used as a hazardous waste drum storage facility from 1981 to 1989. A comprehensive summary of the CWL disposal history is presented in the NMED-approved Closure Plan (SNL/NM 1992) and Landfill Excavation Voluntary Corrective Measure (LE VCM) Final Report (SNL/NM 2003c).

As part of the LE VCM, the CWL was excavated from September 1998 through February 2002. All former disposal areas were completely excavated, which resulted in the removal of more than 52,000 cubic yards of contaminated soil and debris. A final risk assessment, presented in the LE VCM Final Report (SNL/NM 2003c), demonstrates that the excavation and backfill materials meet the NMED-approved risk-based cleanup standards designed to protect human health and the environment (SNL/NM 2000). The LE VCM Final Report was approved by NMED on December 16, 2003.

**TABLE 3-3.** QC Sample Types for Groundwater Sample and Analysis

QC Sample Type	Description
FIELD QC	
Equipment blanks*	Determine the effectiveness of decontamination of the portable sampling pump (Bennett <sup>TM</sup> ) to ensure that cross-contamination did not occur between wells.
Duplicate samples	Establish the precision of sampling process.
Trip blanks	Deionized water samples submitted along with environmental samples to determine if contamination by VOC occurred during sample handling, shipment, or storage.
Field Blanks	To assess whether contamination of the VOC samples had resulted from ambient field conditions.
LABORATORY QC	
Method blanks	Determines contaminants introduced during the sample preparation and handling process in the laboratory.
Laboratory Control Samples (LCS)	Monitors the accuracy and precision of the lab's analytical method using laboratory prepared samples spiked with a known concentration of an analyte. These samples are analyzed in the same batch with the groundwater samples. LCS results are reported as a percent recovery.
Batch matrix spike samples and duplicate matrix spike samples	Measures the effects of chemical spikes added to an existing sample to determine the sample matrix effect. (The matrix is the groundwater.)

**NOTE:** \*Equipment blanks are done for selected wells only.

QC = Quality Control

VOC = volatile organic compounds

# **Current Monitoring Network**

In FY06, the monitoring network at CWL consisted of 13 active wells, as shown in Figure 3-3 and listed in Table 3-4. A total of nine monitoring network wells were sampled in FY06; including two background wells and seven downgradient monitoring wells.

# **Monitoring History**

To comply with RCRA interim permit groundwater monitoring requirements (40 CFR 265 Subpart F), DOE and Sandia Corporation installed five groundwater monitor wells during the summer of 1985. In response to a Notice of Violation (NOV) from NMED with regard to the inadequate design and construction of the 1985 wells, four of these wells were plugged and abandoned in 1997. In 1988, four additional monitoring wells were installed. In 1990, an additional downgradient well was installed. In 1994, seven more monitoring wells were installed. To complete the on-going chromium assessment, NMED requested installing two additional deep monitoring wells to be monitored for eight quarters. These wells were installed in March and April 2003 with NMED direction regarding location, construction, and well screen placement in the regional aquifer. Monitoring well CWL-MW2A was plugged and abandoned on June 8, 2004 due to well integrity issues.

Until 1990, all groundwater sampling at CWL was conducted on a quarterly basis in accordance with 40 CFR 265.92(c)(1). In 1990, NMED granted a reduction in the sampling frequency from quarterly to semi-annually for groundwater contamination indicator parameters and annually for groundwater quality parameters, as allowed by 40 CFR 265.92(d)(2), since no contaminants had been detected above EPA drinking water standards in any well. In the following sampling quarter (March 1990), TCE was detected above the drinking water standard of 5  $\mu$ g/L in CWL-MW2A. Additionally, two indicator parameters (pH and SC) also exceeded state guidelines. Two months later, VOCs were re-sampled and the presence of TCE was confirmed. NMED reinstated the quarterly sampling requirement, and, thereafter, all indicator parameters were re-sampled in accordance with 40 CFR 265.93(c)(2).

In 1995, Appendix G of the Closure Plan was revised and updated as part of a Closure Plan Modification Request submitted to NMED on June 30, 1995. In May 2000, NMED partially approved the revised Appendix G, which included reducing the groundwater sampling frequency from quarterly to semi-annually at CWL for VOCs and metals and reducing Appendix IX sampling from annually to semi-annually. This eliminated sampling for pesticides, dioxins, and furans from the semi-annual Appendix IX sampling event.

In December 2003, NMED presented general groundwater characterization requirements (Kieling 2003). In March 2004, these requirements were further discussed, and it was agreed that seven sampling events will use the conventional sampling method (on all CWL monitoring wells with a large enough diameter to accommodate the conventional method equipment). The original NMED comments and the negotiated agreements regarding the required number of events are documented in the CWL CMS Comment Response Document (SNL 2004a).

#### 3.2.2 Regulations

The CWL at SNL/NM is an interim status landfill being closed under 20.4.1.600 New Mexico Administrative Code (NMAC), incorporating 40 Code of Federal Regulations (CFR) 265 Subpart G and the CWL Final Closure Plan and Postclosure Permit Application ([Closure Plan], SNL/NM 2003d). Monitoring details, such as specific analytes and sampling frequencies, are defined in Appendix G of the Post Closure Permit document, SAP for Groundwater Assessment Monitoring at the CWL, and Chemical Waste Landfill Corrective Measures Study, Remedial Action Proposal, Post Closure Plan (SNL 2003e).

# 3.2.3 Sampling Protocols

Sampling at CWL is conducted on a semi-annual basis. An overview of the sampling protocols for CWL is discussed below.

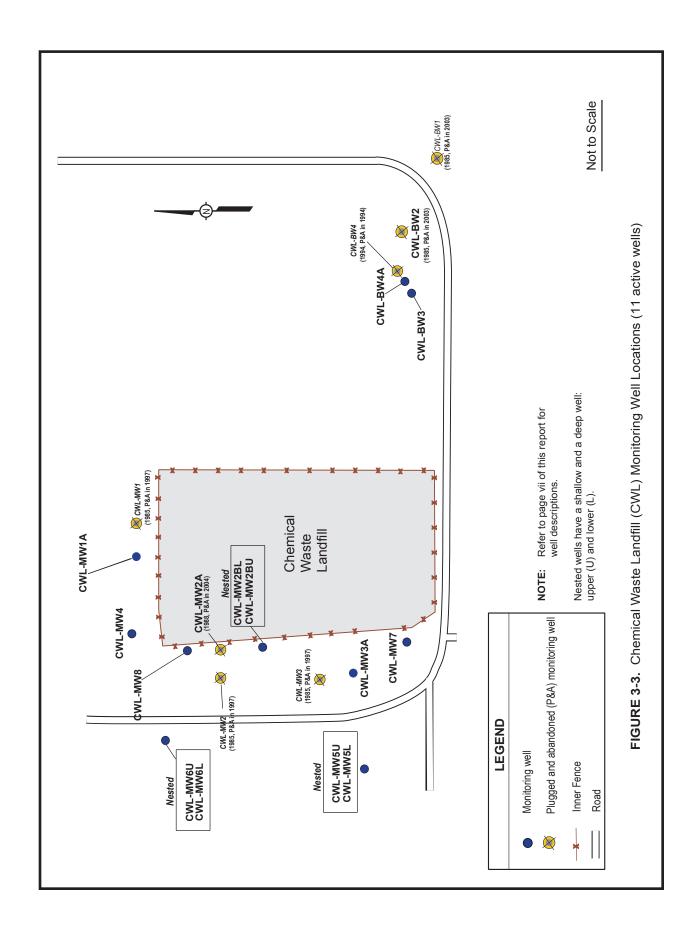


TABLE 3-4. Monitoring Wells at the CWL

Well <sup>(1)</sup>	Installation Year	WQ	WL	Comments
CWL-MW1A	1988			Dry well (filled with sediment during VE VCM)
CWL-MW3A	1988			Dry well (filled with sediment during VE VCM)
CWL-BW3	1988	✓	<b>✓</b>	Background well
CWL-MW4	1990	✓	✓	
CWL-MW2BU	1994	✓	✓	Upper section of nested well
CWL-MW2BL	1994	✓	✓	Lower section of nested well
CWL-MW5U	1994	✓	✓	Upper section of nested well
CWL-MW5L	1994	✓	✓	Lower section of nested well
CWL-MW6U	1994	✓	✓	Upper section of nested well
CWL-MW6L	1994	✓	✓	Lower section of nested well
CWL-BW4A	1994	✓	✓	Background well
CWL-MW7	2003		✓	Deep monitoring well
CWL-MW8	2003		✓	Deep monitoring well

**NOTE:** (1) Refer to page xi of this report for well descriptions.

 $Check marks \ in \ the \ water \ quality \ (WQ) \ and \ water \ level \ (WL) \ columns \ indicate \ WQ \ sampling \ and \ WL$ 

measurements in FY04.

CWL = Chemical Waste Landfill

# **QA and QC Procedures**

Sample QA procedures for groundwater samples are managed through SNL/NM's SMO, as described in Section 3.1.3. QC field samples and QC laboratory samples that were conducted for CWL samples are described in Table 3-3.

# **Field Water Quality Measurements**

Field water quality parameters are measured prior to sampling to determine the effectiveness of well purging. In accordance with Appendix G of the CWL Final Closure Plan, wells are pumped until parameters fall within a specified stability range. Field quality parameters include temperature, specific conductivity, oxidation-reduction, pH, turbidity, and dissolved oxygen.

# Sample Collection and Analysis

A portable Bennett<sup>TM</sup> groundwater sampling system was used to collect samples in all wells, except CWL-MW2BU, CWL-MW5L, and CWL-MW6L. Since these are small diameter wells, less than 2-inches, dedicated low-flow sampling systems (manufactured by QED Micro Purge<sup>TM</sup>) were used to collect samples.

During FY06, groundwater samples were submitted for Appendix IX VOCs, Appendix IX metals plus iron, Appendix IX SVOCs, Appendix IX chlorinated herbicides, PCBs, cyanide, sulfide, and dissolved chromium analyses. All results are listed in Appendix B and discussed in Section 4.3.

# 3.3 Mixed Waste Landfill (MWL)

*Primary COC* - The primary COC in soils at MWL is tritium. Tritium has not been detected in the groundwater at the MWL.

*Monitoring Network* - Seven monitoring wells, including one background well, five downgradient wells, and one on-site well.

Sampling Frequency - Annually (April 2006)

# 3.3.1 Site Background and Well Network

#### **Site Background Information**

MWL is located at TA-III, four miles south of SNL/NM central facilities and five miles southeast of AIA. The landfill is a fenced, 2.6-acre area in the north-central portion of TA-III. MWL was established in 1959 as a disposal area for low-level radioactive waste generated by SNL/NM research facilities. The landfill accepted low-level radioactive waste and minor amounts of mixed waste from March 1959 through December

1988. Approximately 100,000 ft<sup>3</sup> of low-level radioactive waste containing approximately 6300 curies (Ci) of activity were disposed of in the landfill.

MWL consists of two distinct disposal areas: the classified area (occupying 0.6 acres) and the unclassified area (occupying 2.0 acres). Low-level radioactive and mixed waste was disposed of in each of these areas. Classified wastes were buried in unlined, cylindrical pits in the classified area. Unclassified wastes were buried in shallow, unlined trenches in the unclassified area.

A Phase 1 RCRA Facility Investigation (RFI) was conducted in 1989 and 1990 to determine if a release of RCRA contaminants had occurred at the MWL. The Phase 1 RFI indicated that tritium had been released to the environment. A Phase 2 RFI was conducted from 1992 to 1995 to determine the contaminant source, define the nature and extent of contamination, identify potential contaminant transport pathways, evaluate potential risks, and provide remedial action alternatives for the landfill.

The Phase 2 RFI confirmed tritium as the COC. Tritium occurs in surface and near surface soils in and around the classified area of the landfill. Tritium levels range from 1100 pCi/g in surface soils to 206 pCi/g in subsurface soils. The highest tritium levels have been found within 30 ft bgs in soils adjacent to and directly below classified area disposal pits. At depths greater than 30 ft bgs, tritium levels decrease rapidly. Tritium has also been identified as a diffuse air emission from the landfill and is emitted from the landfill at a rate of 0.09 pCi/yr (Anderson 2004).

# **Current Monitoring Network**

MWL has a monitoring network of seven wells shown in Figure 3-4 and listed in Table 3-5. The monitoring network includes one background well, five downgradient wells, and one on-site well. Annual sampling of all MWL wells was conducted in April 2006 for VOCs, target analyte list (TAL) metals and total uranium, nitrate plus nitrite (NPN), major ions, tritium, gross alpha/beta radioactivity, and gamma-emitting radionuclides.

The on-site well MWL-MW4 was drilled at a six-degree angle from vertical and is screened in two completion zones directly beneath Trench D, a trench in the northern half of the unclassified area of the landfill. The lower zone is sealed off with an inflatable packer, which hydraulically isolates the two zones. The upper completion zone is currently monitored for water quality and water levels; the lower zone is not monitored at this time.

# **Monitoring History**

Quarterly sampling was conducted from September 1990 through January 1992. Semi-annual sampling was conducted from January 1992 through 1995. Annual sampling has been conducted from April 1996 to present. Wells MWL-MW5 and MWL-MW6 were installed in 2000 and were sampled quarterly for eight quarters through October 2002, prior to switching to annual sampling. All MWL wells are currently sampled annually in April.

# 3.3.2 Regulations

MWL is regulated by NMED as a SWMU in accordance with the protocols given in 40 CFR 264, "Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities." Subpart F, "Releases From Solid Waste Management Units," describes groundwater monitoring activities.

# 3.3.3 Sampling Protocols

All MWL wells were sampled in April 2006. An overview of MWL sampling and data collection procedures is discussed in the following sections.

# **Field Water Quality Measurements**

Field water quality parameters are measured prior to sampling to determine the effectiveness of well purging. As discussed in Section 3.1.3 and listed in Table 3-2, the wells are purged until parameters are consistent within a specified stability range.

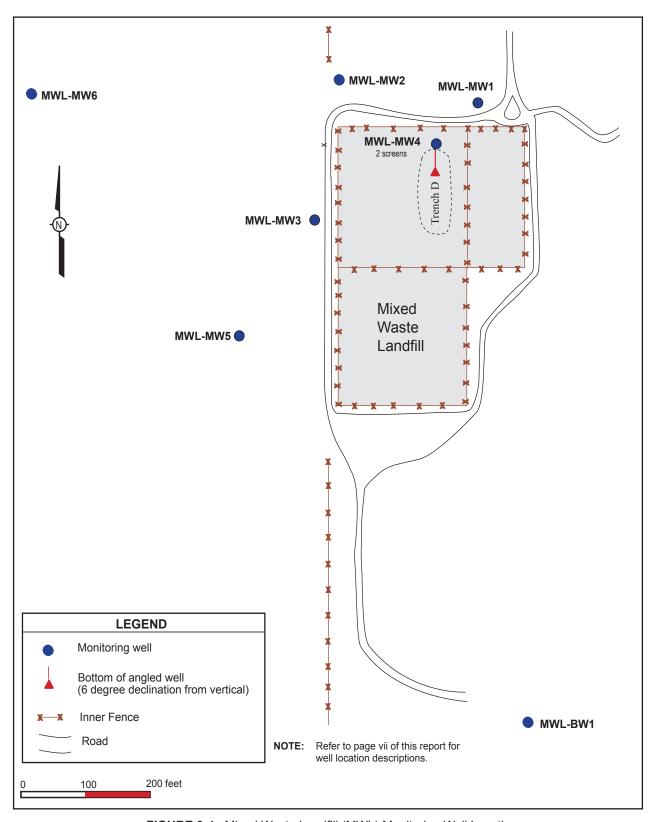


FIGURE 3-4. Mixed Waste Landfill (MWL) Monitoring Well Locations

TABLE 3-5. Monitoring Wells at the MWL

Well (1)	Installation Year	WQ	WL	Comments
MWL-BW1	1989	✓	✓	Background well (Cross-gradient)
MWL-MW1	1988	✓	✓	
MWL-MW2	1989	✓	✓	
MWL-MW3	1989	✓	✓	
MWL-MW4	1993	✓	✓	On-site well, 6 degree angled, dual completion
MWL-MW5	2000	✓	✓	
MWL-MW6	2000	✓	✓	

**NOTE:** (1) Refer to page xi of this report for well descriptions.

Checks in the water quality (WQ) and water level (WL) columns indicate WQ sampling and WL measurements in FY06.

MWL = Mixed Waste Landfill

# **Sample Collection and Analysis**

With the exception of MWL-MW4, which has a dedicated Bennett<sup>TM</sup> pump, all other MWL wells are sampled with a portable Bennett<sup>TM</sup> pump. The pump and tubing bundle are decontaminated prior to sampling each well. Each well is either purged to dryness (if recovery is slow) or purged until parameters stabilize (typically two to three casing volumes). Groundwater samples from MWL wells were collected and shipped using analysis request/chain of custody protocol. Samples were analyzed for VOCs, TAL metals and total uranium, NPN, major ions, tritium, gross alpha/beta radioactivity, and gamma-emitting radionuclides. Groundwater analytical results from FY06 are listed in Appendix C and discussed in Section 4.4.

# **QA and QC Procedures**

Sample QA procedures for groundwater samples are managed through the SNL/NM SMO as described in Section 3.1.3. QC field samples and QC laboratory samples are described in Table 3-3.

# 3.4 Technical Area V (TA-V)

Principal COCs for Groundwater Contamination - TCE and nitrate.

Monitoring Network - 13 wells were sampled in FY06.

*Sampling Frequency* - Quarterly: November/December 2005, January/February/March 2006, May 2006, and August/September 2006.

# 3.4.1 Site Background and Well Network

# **Site Background Information**

The two primary areas of investigation in TA-V are the TA-V Seepage Pits and the LWDS, which are shown in Figure 3-5. The TA-V Seepage Pits (SWMU 275) are comprised of two septic tanks connected to six seepage pits. In the past, at least six buildings at the south end of TA-V had sewer lines connected to the seepage pits. The system operated from the early 1960s up to 1992, at which time the sewer lines were connected to the COA sewer system. It is estimated that as much as 3,000 to 5,000 gals of water were disposed of at the pits on a daily basis. The TA-V Seepage Pits have been proposed and accepted by NMED for No Further Action (NFA).

The LWDS was designed to receive, monitor, and discharge radioactive effluent from the Sandia Experimental Reactor Facility (SERF) in TA-V. The system consists of three individual SWMUs: LWDS Holding Tanks (SWMU 52); LWDS Drainfield (SWMU 5); and LWDS Surface Impoundments, including the discharge lines connecting to the impoundments (SWMU 4). The LWDS Surface Impoundments consist of two unlined impoundments. Starting in 1963, radioactive discharges drained to the LWDS Holding Tanks, where they were monitored, then pumped to the LWDS Drainfield. When the drainfield collapsed in 1967, discharges were directed to the LWDS Surface Impoundments. Radioactive discharges continued until 1971 when SERF was decommissioned. Non-radioactive discharges continued until 1992. From 1963 until 1971, the system

received about 19 million gals of wastewater contaminated with 35 Ci of radionuclides. Approximately 6.5 million gallons went to the drainfield, with the remainder going to the surface impoundment. The LWDS Drainfield (SWMU 5) and the LWDS Surface Impoundments (SWMU 4) have been proposed for NFA, pending approval by NMED. The LWDS Holding Tanks (SWMU 52) are still in use and on the active site list.

#### **Current Network**

The 13 wells in the TA-V monitoring network are used to monitor water quality and/or water levels (Figure 3-5, Table 3-6).

# **Monitoring History**

Groundwater monitoring at TA-V began in October 1992. TCE was first detected in LWDS-MW1 in October 1993 and was later detected in TAV-MW1 in September 1995. TCE concentrations in LWDS-MW1 have consistently exceeded the MCL of 5 mg/L. In FY98, TCE was detected at very low, non-quantifiable levels in TAV-MW4. In FY06, TCE was detected above the MCL in LWDS-MW1 during all four sampling events, TAV-MW1 during two sampling events, and TAV-MW6 during one sampling event. Levels of nitrate above the MCL have been detected in LWDS-MW1 during three FY06 sampling events, and in TAV-MW1 during one sample event. Potential sources for TCE in groundwater include both the LWDS and the TA-V Seepage Pits.

# 3.4.2 Regulations

Groundwater monitoring activities at TA-V are conducted in accordance with the protocols in 40 CFR 264, "Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities." Subpart F, "Releases from Solid Waste Management Units," defines the groundwater monitoring activities. Groundwater monitoring at TA-V was initiated to satisfy the requirements of SNL/NM's HSWA permit for characterization of SWMUs and is currently conducted per the requirements of the COOC. The groundwater monitoring activities for the TA-V investigation are not associated with a single SWMU, but are more regional in nature and have historically been conducted on a voluntary basis by the ER Project. Initially, groundwater monitoring activities at TA-V were initiated to satisfy the requirements of the SNL/NM HSWA permit for characterization of SWMUs.

The COOC, effective April 29, 2004, transferred regulatory authority for corrective action of SWMU and areas with groundwater contamination from the HWSA module to the COOC. The TA-V investigation must comply with requirements set forth in the COOC for site characterization and the development of a CME for this groundwater area of concern (AOC). The COOC also contains schedules that define dates for the delivery of plans and reports related to TA-V. NMED HWB is the regulatory agency responsible for enforcing the requirements identified in the COOC for the TA-V CME.

In response to the requirement for completing a CME, DOE/NNSA and Sandia Corporation submitted the following TA-V documents to NMED: (1) Current Conceptual Model of Groundwater Flow and Contaminant Transport at Sandia National Laboratories Technical Area-V (SNL/NM 2004b), (2) Corrective Measures Evaluation Work Plan Technical Area-V (SNL/NM 2004c), and (3) Corrective Measures Evaluation Report for Technical Area-V Groundwater (SNL/NM 2005a).

The Current Conceptual Model of Groundwater Flow and Contaminant Transport at Sandia National Laboratories Technical Area-V document provided site-specific characteristics by which remedial alternatives were evaluated. The Corrective Measures Evaluation (CME) Work Plan Technical Area-V document was completed to comply with requirements set forth in the COOC, with the guidance of the RCRA Corrective Action Plan (EPA 1994). This work plan provided a description and justification by which remedial alternatives were considered, and the methods and criteria used in the evaluation were to be determined.

In support of the selected remedy, the CME Report included the following documents as attachments: (1) Conceptual Model Update: Contaminant Distribution in Groundwater, (2) Remedial Alternatives Data

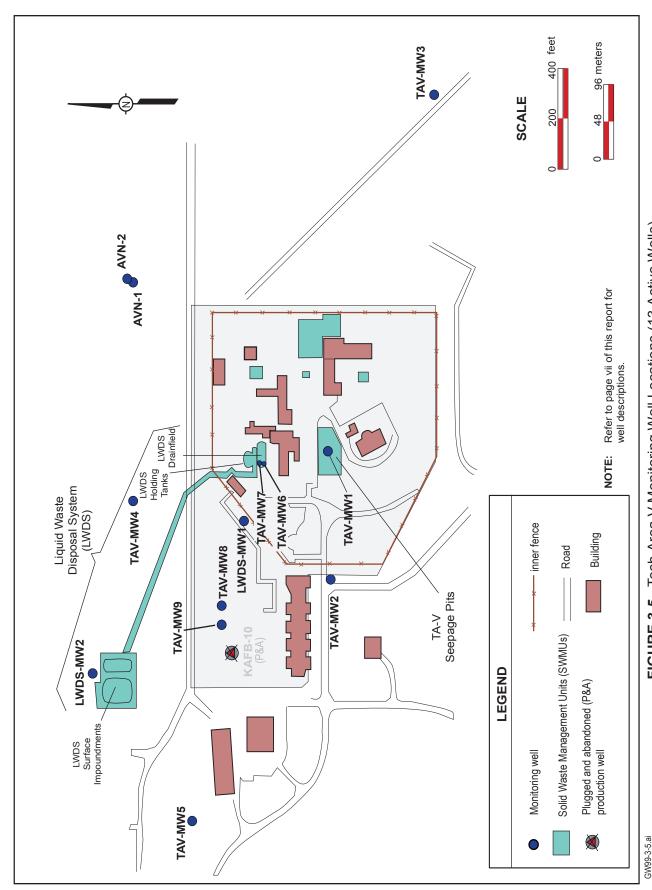


FIGURE 3-5. Tech Area V Monitoring Well Locations (13 Active Wells)

TABLE 3-6. Monitoring Wells at TA-V

Well (1)	Installation Year	WQ	WL	Comments
LWDS-MW2	1992	✓	✓	Regional aquifer
LWDS-MW1	1993	✓	✓	Regional aquifer
AVN-1	1995	<b>√</b>	<b>√</b>	Regional aquifer
AVN-2	1995	<b>√</b>	<b>√</b>	Regional aquifer
TAV-MW1	1995	✓	<b>√</b>	Regional aquifer
TAV-MW2	1995	✓	<b>√</b>	Regional aquifer
TAV-MW3	1997	<b>√</b>	<b>√</b>	Regional aquifer
TAV-MW4	1997	✓	<b>√</b>	Regional aquifer
TAV-MW5	1997	✓	<b>√</b>	Regional aquifer
TAV-MW6	2001	<b>√</b>	<b>√</b>	Regional aquifer, water table completion
TAV-MW7	2001	<b>√</b>	<b>✓</b>	Regional aquifer, deep completion (597-617 ft)
TAV-MW8	2001	✓	<b>✓</b>	Regional aquifer, water table completion
TAV-MW9	2001	<b>√</b>	✓	Regional aquifer, deep completion (582-602 ft)

**NOTE:** (1) Refer to page xi of this report for well descriptions.

Checkmarks in the water quality (WQ) and water level (WL) columns indicate WQ sampling and WL measurements made in FY06.

Gaps Review, (3) Evaluation of Contaminant Transport in Groundwater, (4) Investigation of Contaminant Biodegradation, and (5) Evaluation of Intrinsic Aerobic Degradation Mechanism (SNL/NM 2005a).

# 3.4.3 Sampling Protocols

Sampling at TA-V is conducted on a quarterly basis. An overview of the sampling protocols is discussed below.

# **Field Water Quality Measurements**

Field water quality parameters are measured prior to sampling to determine the effectiveness of well purging. As discussed in Section 3.1.3 and listed in Table 3-2, the wells are pumped until the parameters fall within a specified stability range.

# Sample Collection and Analysis

All wells in the TA-V investigation were sampled using conventional purging/sampling techniques (using a Bennett<sup>TM</sup> pump) and following procedures outlined in the COOC. In accordance with SNL/NM Field Operating Procedure (FOP) 94-48, each monitoring well was purged to remove stagnant well casing water prior to sample collection. Quarterly groundwater samples collected from all wells were analyzed for VOCs and NPN (as nitrogen). Additional samples were collected from various wells and analyzed for PCBs, anions (such as bromide, chloride, fluoride, and sulfate), TAL metals, tritium, gross alpha, gross beta, and gamma spectroscopy. All results are listed in Appendix D and discussed in Section 4.5.

# **QA and QC Procedures**

Sample QA procedures for groundwater samples are managed through SNL/NM's SMO as described in Section 3.1.3. QC field samples and QC laboratory samples that were conducted for TA-V samples are described in Table 3-3.

# 3.5 TAG Investigation

Principal COCs for Groundwater Contamination - TCE and nitrate.

*Monitoring Network* - 27 wells screened within the perched GWS or regional aquifer (including COA monitoring wells: Eubank-1, Eubank-2, Eubank-3, and Eubank-5).

*Sampling Frequency* - Quarterly/semi-annually/annually: October/November 2005, January 2006, April/May 2006, and July/August 2006.

# 3.5.1 Site Background and Well Network

# **Site Background Information**

The TAG investigation collectively includes sites located in TAs I, II, IV, and along Tijeras Arroyo, including neighboring property owned by KAFB and COA. The site history of the TAG investigation area is complex. Since the late 1920s, there have been multiple tenants and facilities located in the area that have conducted a wide variety of activities. Many had the potential to contribute to groundwater contamination, which makes determining the sources of contaminants in the groundwater difficult, if not impossible. Source determination is further complicated by past operations at KAFB and by COA, as well as COA sewer lines currently in use.

In early 1928, the first airport in Albuquerque was constructed where TAs I and II are currently located. In the spring of 1942, during a dismantling operation, 2,250 military aircraft were dismantled adjacent to the runways. In July 1945, the "Z Division" of the Manhattan Engineers District, an extension of the original Los Alamos Laboratories, was established as the forerunner of SNL/NM. At that time, the primary mission of Z Division was to provide engineering, production, stockpiling, and testing support for nuclear weapons components and systems. In the summer of 1949, the major weapons production was transferred to other manufacturing facilities, and the early work of SNL/NM was concentrated on prototype research and the manufacture of experimental devices. Since 1949, SNL/NM has grown from a factory-style ordnance facility to a national laboratory dedicated to research, development, and testing of both defense and non-defense components. The current work performed in TAs I and II can be divided into four main types: nuclear weapon, non-nuclear weapon, technical support, and special research and development. Numerous SNL/NM facilities may have had a potential to release hazardous materials to the soil and groundwater; however, the current research-oriented mission of most SNL/NM laboratories has resulted in an inventory of numerous chemicals in small quantities, which are generally stored and used indoors.

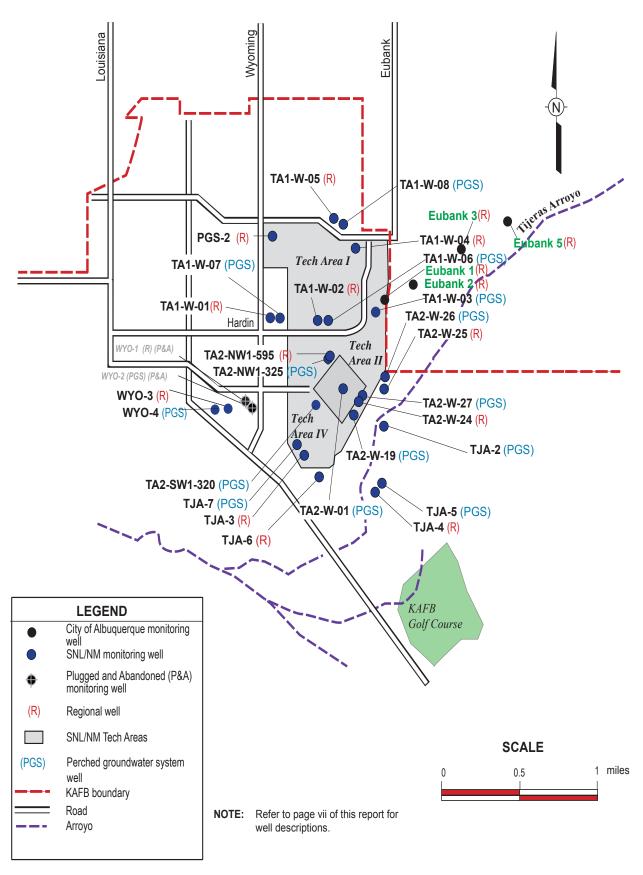
# **Current Monitoring Network**

The TAG Investigation has a monitoring network of 27 active wells as listed in Table 3-7 and shown in Figure 3-6. Twelve wells are completed in the perched GWS, and 15 wells are completed in the regional aquifer. The wells in the TAG monitoring network are used to monitor water quality and/or water levels also listed in Table 3-7.

Beginning in October 2000, meetings of the TAG High Performance Team (HPT) served as a forum for discussing TAG issues. During these meetings, members of the HPT have declared that all groundwater analytical results collected using low-flowing sampling devices are suspect. Based on this perceived inadequacy of the sampling method, TAG quarterly groundwater sampling was suspended until an alternative sampling method could be implemented. In June 2003, SNL/NM submitted the TAG Investigation Work Plan (SNL 2003f) to NMED. This work plan presented a comprehensive scope of work for groundwater investigations that are being jointly conducted by SNL/NM, KAFB, and COA. Based on the requirements of the work plan, quarterly groundwater sampling resumed in July 2003 using conventional groundwater purging/sampling techniques. NMED approved the TAG Investigation Work Plan in September 2003 (NMED 2003). The six quarterly sampling events required by the work plan were completed at the end of FY05. Since that time, TAG wells have been sampled quarterly, semi-annually, or annually; however, all FY06 sampling continued to follow the procedures outlined in the NMED-approved work plan.

# **Monitoring History**

In 1992 and 1993, three monitoring wells were installed as part of the groundwater quality investigations initiated in TA-II. A perched GWS was encountered at a depth of approximately 320 ft bgs. Two of the original wells were completed in this perched GWS. The third well was completed in the regional aquifer at a depth of approximately 530 ft bgs. In October 1994, analytical results from a perched GWS well identified TCE at a concentration of 1.0  $\mu$ g/L, as compared to the MCL of 5.0  $\mu$ g/L. In 1995, TCE was again identified in a perched GWS well at a concentration of 1.6  $\mu$ g/L. Subsequently, a groundwater sample from a well located west of TA-II (on KAFB property) produced a TCE concentration of 8.1  $\mu$ g/L. Additional investigations were prompted to identify the source of TCE. The ER Project established a separate task called Sandia North (since



**FIGURE 3-6.** Tijeras Arroyo Groundwater (TAG) Investigation Monitoring Well Locations (30 active wells)

TABLE 3-7. Monitoring Wells in the TAG Investigation Area

Well (1)	Installation	WQ	WL	Comments
	Year			
Eubank-1	1988		<b>√</b>	Regional aquifer (COA well)
Eubank-2	1997		✓	Regional aquifer (COA well)
Eubank-3	1997		<b>√</b>	Regional aquifer (COA well)
Eubank-5	1997		<b>√</b>	Regional aquifer (COA well)
PGS-2	1995	<b>√</b>	<b>√</b>	Regional aquifer
TA1-W-01	1997	<b>✓</b>	<b>√</b>	Regional aquifer
TA1-W-02	1998	<b>√</b>	<b>√</b>	Regional aquifer
TA1-W-03	1998	<b>✓</b>	<b>√</b>	Perched aquifer
TA1-W-04	1998	<b>✓</b>	<b>√</b>	Regional aquifer
TA1-W-05	1998	✓	✓	Regional aquifer
TA1-W-06	1998	✓	✓	Perched GWS
TA1-W-08	2001	<b>√</b>	<b>√</b>	Perched GWS
TA2-NW1-595	1993	<b>√</b>	<b>√</b>	Regional GWS
TA2-SW1-320	1992	<b>√</b>	<b>√</b>	Perched GWS
TA2-W-01	1994	<b>✓</b>	<b>√</b>	Perched GWS
TA2-W-19	1995	<b>✓</b>	<b>√</b>	Perched GWS
TA2-W-25	1997		<b>√</b>	Regional GWS
TA2-W-26	1998	<b>√</b>	<b>√</b>	Perched GWS
TA2-W-27	1998	<b>√</b>	<b>√</b>	Perched GWS
TJA-2	1994	<b>√</b>	<b>√</b>	Perched GWS
TJA-3	1998	<b>√</b>	<b>√</b>	Regional GWS
TJA-4	1998	<b>√</b>	✓	Regional GWS
TJA-5	1998		<b>√</b>	Perched GWS
TJA-6	2001	<b>√</b>	<b>√</b>	Regional GWS
TJA-7	2001	<b>√</b>	<b>√</b>	Perched GWS
WYO-3	2001	<b>✓</b>	<b>√</b>	Regional GWS
WYO-4	2001	<b>√</b>	✓	Perched GWS

NOTE: (1) Refer to page xi of this report for well descriptions.

Checkmarks in the water quality (WQ) and water level (WL) columns indicate WQ sampling and WL measurements in FY06.

changed to the current name of Tijeras Arroyo Groundwater) to plan and conduct groundwater characterization activities in the vicinity of TAs I and II, and Tijeras Arroyo. The investigation plans are documented in the Sandia North Groundwater Investigation Plan (GIP) (SNL 1996a). The results of the investigation were reported in the Tijeras Arroyo Groundwater Continuing Investigation Report (SNL 2002a).

# 3.5.2 Regulations

These activities are directed by the provisions of the SNL/NM HSWA permit. Oversight is provided by NMED's HWB. Groundwater characterization activities were originally conducted voluntarily as proposed in the GIP (SNL 1996a) and are currently conducted per requirements of the NMED-approved TAG Investigation Work Plan (SNL 2003f) and the COOC. The groundwater monitoring activities for the TAG investigation are not associated with a single SWMU, but are more regional in nature and have historically been conducted by the ER Project. Groundwater characterization activities for TAG were originally conducted voluntarily as proposed in the GIP (SNL/NM 1996a). More recently TAG activities were conducted per requirements of the NMED-approved TAG Investigation Work Plan (SNL/NM 2003f).

The NMED Order transferred regulatory authority for the investigation of SWMUs and areas with groundwater contamination from the HWSA module to the COOC. The TAG investigation must comply with requirements set forth in the COOC for site characterization and the development of a CME for this groundwater AOC. The COOC also contains schedules that define dates for the delivery of plans and reports related to TAG. The NMED HWB is the regulatory agency responsible for enforcing the requirements identified in the NMED Order for the TAG CME.

In response to the requirements for completing a CME, SNL/NM submitted the following TAG documents to the NMED: (1) CME Work Plan Tijeras Arroyo Groundwater (SNL/NM 2004d) and (2) CME Report for Tijeras Arroyo Groundwater (SNL/NM 2005b).

The CME Work Plan Tijeras Arroyo Groundwater document was completed to comply with requirements set forth in the COOC, with the guidance of the RCRA Corrective Action Plan (EPA 1994). The work plan provided a description and justification by which remedial alternatives were considered, and the methods and criteria to be used in the evaluation were determined.

In support of the selected remedy, the CME Report included the following documents as attachments: (1) Contaminant Distribution in Groundwater, (2) Remedial Alternatives Data Gaps Review, (3) Evaluation of Contaminant Transport in Groundwater, (4) Investigation of Anaerobic Biodegradation, and (5) Evaluation of Intrinsic Aerobic Degradation Mechanism (SNL/NM August 2005b).

# 3.5.3 Sampling Protocols

Sampling in the TAG Investigation area is conducted on a quarterly/semi-annual/annual basis. An overview of the sampling protocols is discussed below.

# **Field Water Quality Measurements**

Field water quality parameters are measured prior to sampling to ensure that formation water is being sampled. As discussed in Section 3.1.3 and listed in Table 3-2, the wells are pumped until parameters fall within the specified stability range.

# Sample Collection and Analysis

Wells in the TAG investigation were sampled using conventional purging/sampling techniques (using a Bennett<sup>TM</sup> pump) and following procedures originally outlined in the TAG Investigation Work Plan (SNL 2003f). Due to well completion restrictions, wells PGS-2 and TA2-SW1-320 could not be purged and sampled by conventional methods. Low-flow sampling methods were used to purge and sample groundwater at these two locations. Groundwater samples were analyzed for VOCs, NPN (as nitrogen), anions, total metals, PCBs, tritium, gross alpha, gross beta, and gamma spectroscopy. All analytical results are listed in Appendix E and discussed in Section 4-6.

#### **OA and OC Procedures**

Sample QA procedures for groundwater samples are managed by SMO as described in Section 3.1.3. QC field samples and QC laboratory samples that were collected and analyzed for the TAG investigation are described in Table 3-3.

# 3.6 Burn Site Goundwater

Principal COCs for Groundwater Contamination - Nitrate and petroleum hydrocarbons. Monitoring Network - Six monitoring wells, one production well, and two alluvial piezometers. Sampling Frequency - Quarterly: December 2005, March 2006, June 2006, and September 2006.

# 3.6.1 Site Background and Well Network

# **Site Background Information**

The Burn Site Groundwater (formerly know as Canyons) Study Area centers around the active Burn Site Facility in Lurance Canyon. This facility is used to conduct thermal testing using JP-4 fuel. Large burns are performed in lined pools on various components, such as very large shipping containers. A release of petroleum hydrocarbons from the area is indicated by groundwater monitoring results, although no constituents presently exceed MCLs.

# **Current Monitoring Network**

There are six groundwater monitoring wells completed in a bedrock aquifer, one non-potable production well

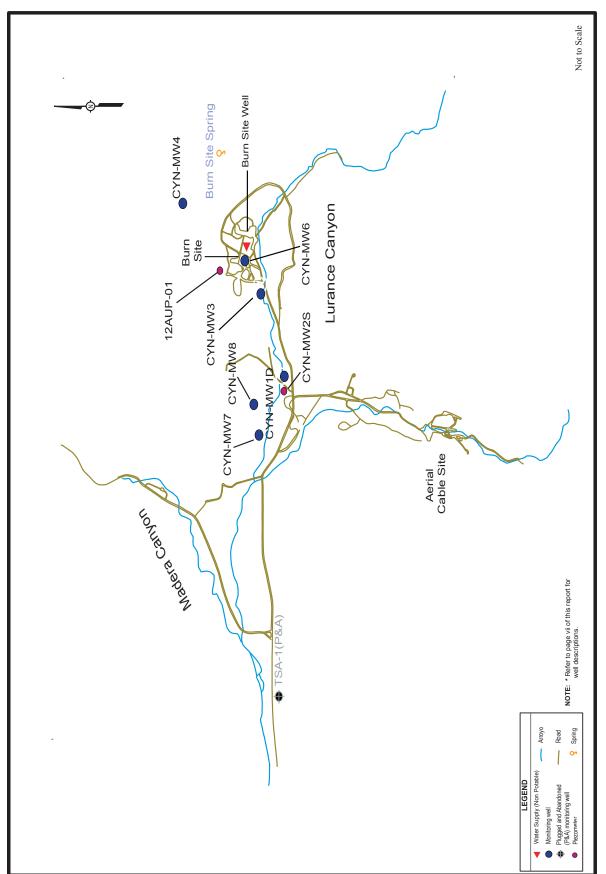


FIGURE 3-7. Wells and Piezometers in the Burn Site Groundwater Study Area (six active wells)

**TABLE 3-8.** Wells and Piezometers at the Burn Site Groundwater Area

Well (1)	Installation Year	WQ	WL	Comments
12AUP-01	1997			Underflow piezometer (dry)
Burn Site Well*	1986			Utility water supply well
CYN-MW1D	1997	✓	✓	Bedrock groundwater well
CYN-MW2S	1997			Underflow piezometer (dry)
CYN-MW3	1999	✓	✓	Bedrock groundwater well
CYN-MW4	1999	✓	✓	Bedrock groundwater well
CYN-MW6	2006	✓	✓	Bedrock groundwater well
CYN-MW7	2006	✓	✓	Bedrock groundwater well
CYN-MW8	2006	✓	✓	Bedrock groundwater well

Checkmarks in the water quality (WQ) and water level (WL) columns indicate WQ sampling and WL

completed in a bedrock aquifer, and two alluvial piezometers in the monitoring network for the Burn Site Groundwater Area, as shown on Figure 3-7. The wells in the Burn Site Groundwater monitoring network are used to monitor water quality and/or water levels (Table 3-8).

# **Monitoring History**

In 1996, elevated nitrate readings of 27 mg/L were first encountered in the Burn Site Well. CYN-MW1D was installed in 1997 to determine the extent of the potential contamination. This monitoring well has revealed nitrate levels up to 28 mg/L in FY04 and detectable levels of petroleum hydrocarbons, but less than MCLs, where applicable. Two shallow piezometers (12AUP-01 and CYN-MW2S) were installed in 1997 to determine if any ephemeral flow was occurring at the alluvium-bedrock interface. Both piezometers have been predominately dry since they were installed. A downgradient well, CYN-MW3, and an upgradient well, CYN-MW4, were installed in 1999 to better define the nature and extent of the contamination at the site. In 2005 and 2006, three additional wells (CYN-MW6, CYN-MW7, and CYN-MW8) were installed at the request of NMED (discussed below). CYN-MW3 has revealed a maximum of 22 mg/L nitrate (as nitrogen) in FY01 and low levels of petroleum hydrocarbons. CYN-MW4 has revealed low levels of petroleum hydrocarbons and has not had any nitrate (as nitrogen) levels above the MCL.

### 3.6.2 Regulations

Groundwater monitoring activities at the Burn Site Groundwater Study Area are conducted in accordance with the protocols in 40 CFR 264, "Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities." Subpart F, "Releases From Solid Waste Management Units," defines the groundwater monitoring activities. Groundwater monitoring was initiated at the request of NMED and is currently a requirement of the COOC.

The groundwater monitoring activities for the Burn Site Groundwater Study Area are not associated with a single SWMU, but are more regional in nature and have historically been conducted by the ER Project on a volunteer basis. Initially, groundwater monitoring at Burn Site was initiated to satisfy the requirements of the SNL/NM HSWA permit for characterization of SWMUs.

The COOC transferred regulatory authority for the investigation of SWMUs and areas with groundwater contamination from the HWSA module to the COOC. Burn Site Groundwater must comply with requirements set forth in the COOC for site characterization and the development of a CME for this groundwater AOC. The COOC also contains schedules that define dates for the delivery of plans and reports related to Burn Site Groundwater, TAG, and TA-V. NMED HWB is the regulatory agency responsible for enforcing the

NOTE: \*Not an Environmental Restoration (ER) well.

<sup>(1)</sup> Refer to page xi of this report for well descriptions.

requirements identified in the COOC for the Burn Site Groundwater CME.

In response to the requirement for completing a CME, SNL/NM submitted the following two Burn Site Groundwater documents to NMED: (1) Current Conceptual Model of Groundwater Flow and Contaminant Transport at Sandia National Laboratories/New Mexico Burn Site (SNL/NM June 2004e), and (2) Corrective Measures Evaluation Work Plan for Sandia National Laboratories/New Mexico Burn Site (SNL/NM June 2004f). The Current Conceptual Model document provided site-specific characteristics by which remedial alternatives were evaluated. The CME Work Plan document provided a description and justification by which remedial alternatives were considered and the methods and criteria used in the evaluation were determined. The CME Work Plan was completed to comply with requirements set forth in the COOC, with the guidance of the RCRA Corrective Action Plan (EPA 1994).

On March 1, 2005, the DOE/NNSA and Sandia Corporation received a letter from NMED (NMED 2005), which rejected the CME Work Plan and stipulated the following requirements:

- •DOE/NNSA and Sandia Corporation must prepare and submit an Interim Measures Work Plan (IMWP) within 90 days from the receipt of the letter (by May 30, 2005).
- •NMED requires additional characterization of the nitrate-contaminated groundwater near the Burn Site; specifically, the downgradient extent of groundwater with nitrate concentrations >10 mg/L shall be determined.
- •NMED does not accept the CME Work Plan for SNL/NM Burn Site (SNL/NM 2004f) because they are not satisfied with the existing characterization of nitrate-contaminated groundwater near the Burn Site.
- •NMED also required the installation of one additional monitoring well "adjacent to SWMU-94F in order to establish groundwater conditions in this petroleum contamination source area."

DOE/NNSA and Sandia Corporation submitted an IMWP to NMED in May 2005 that proposed the installation of additional groundwater monitoring wells to characterize the extent of nitrate contamination in the aquifer downgradient of CYN-MW1D and fuel-related compounds downgradient of SWMU 94F (SNL/NM 2005c). Data derived from NMED required groundwater monitoring wells be used to support a revised conceptual model and revised CME Work Plan. The selected interim measures described in the IMWP included additional well installation, groundwater monitoring, and institutional controls. These interim measures were proposed to serve three purposes: 1) provide data to support the CME, 2) monitor the migration of the nitrate plume in order to provide an early warning system to trigger an action if a danger to downgradient ecological receptors (Coyote Springs) becomes apparent, and 3) protect human health and the environment by limiting exposure to contaminated groundwater by restricting access to the monitoring wells by means of locks and posting warning signs near well heads.

In support of the selected interim measures, the IMWP included the following reports as attachments: (1) Remedial Alternatives Data Gaps Review, (2) Nitrate Source Evaluation, and (3) Evaluation of Contaminant Transport. The Data Gaps Review document included detailed definitions of remedial alternatives and a preliminary evaluation of remedial alternatives with the purpose of identifying data gaps. One of the data gaps identified included determining background nitrate concentrations and evaluating the potential for a residual source of nitrate in the vadose zone. The investigation initiated to fill this data gap and the analytical results were presented in the Nitrate Source Evaluation report. The Evaluation of Contaminant Transport report consisted of a simplified cross-sectional modeling approach to simulate transport and dilution of nitrate between the current location of nitrate in Burn Site groundwater and potential human and ecological receptors (SNL/NM 2005c).

# 3.6.3 Sampling Protocols

Sampling is conducted quarterly. An overview of the sampling protocol is discussed below.

# **Field Water Quality Analysis**

Field water quality parameters are measured prior to sampling to determine the effectiveness of well purging. As discussed in Section 3.1.3 and listed in Table 3-2, the wells are pumped until the parameters fall within a specified stability range.

# Sample Collection and Analysis

For the FY06 quarterly sampling events, all six monitoring wells in the Burn Site Groundwater Area were sampled by conventional purging/sampling techniques using a Bennett<sup>TM</sup> pump. The production well has a dedicated submersible pump, but this well was not sampled in FY06. The alluvial piezometers have continued to be predominately dry, and no groundwater samples have been collected from these wells. Samples are analyzed for NPN (as nitrogen), VOCs, SVOCs, HE, diesel-range organics, gasoline-range organics, perchlorate, metals, radionuclides, anions, and total dissolved solids. All results are listed in Appendix F and discussed in Section 4.7.

# **QA and QC Procedures**

Sample QA procedures for groundwater samples are managed through SNL/NM SMO, as described in Section 3.1.3. QC field samples and QC laboratory samples that were conducted for the Burn Site Groundwater are described in Table 3-3.

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This chapter details the analytical results for groundwater monitoring activities conducted by the GWPP and the ER Project in FY06. A table within each section lists the specific wells that were sampled in each sampling period and the type of analyses that were conducted (e.g., metals, organics, and radionuclides). Any analytical results exceeding parameter-specific MCLs established by the EPA, MACs established by the NMWQCC, and/or DOE drinking water guidelines are presented in tables within each section, and trend graphs in Section 4-8. DOE drinking water guidelines are calculated as four percent of the published derived concentration guide (DCG) for ingested water (DOE 1993). All analytical results are presented in Appendices A through G.

# **Chapter Four**

# groundwater water quality monitoring results

# 4.1 Regulatory Criteria

Groundwater sample analytical results are compared to one or more federal, state, or DOE standards as shown in Table 4-1.

# 4.2 GWPP Results

Annual groundwater sampling was conducted by the Groundwater Surveillance Task under the GWPP during the period of February 14 to March 13, 2006. In addition, quarterly perchlorate sampling was performed per requirements of the NMED Order. Well locations are shown in Figure 3-1.

(	<b>GWPP Surveillance Netv</b>	vork
Coyote Springs	EOD Hill	Eubank 1
Greystone-MW2	MRN-2	MRN-3D
NWTA3-MW2	NWTA3-MW3D	PL-2
PL-3	SFR-2S	SFR-4T
SWTA3-MW2	SWTA3-MW3	TRE-1
SWTA3-MW4		



Installation of the Pneumatic Packer into a monitoring well

**NOTE:** Refer to page xi of this report for well descriptions.

TABLE 4-1. Regulations and Requirements Pertinent to Groundwater Contaminant Levels

Regulation/Requirements	Standards and Guides	Regulating Agency
National Primary Drinking Water Regulations (this is an enforceable health standard) (40 CFR 141)	Maximum Contaminant Level (MCL)	U.S. Environmental Protection Agency (EPA)
New Mexico Water Quality Control Commission (NMWQCC) (1) Stan- dards for Groundwater (20 NMAC 6.2)	Maximum Allowable Concentra- tion (MAC) for Human Health Standards	NMWQCC

NOTE: (1) MACs for Human Health Standards are identified in the analytical results tables in the appendices.

# Sandia National Laboratories, New Mexico

# **Analytes Sampled**

Results are presented in Appendix A, Tables GWPP-A1 through GWPP-A9. Prior to the collection of samples at each well, field parameters were measured as discussed in Section 3.1.3. Sample results are presented in Appendix A, Table GWPP-A9. A field alkalinity titration was also performed at the time of sample collection. All GWPP groundwater samples were sent to an off-site laboratory and analyzed using EPA-approved analytical methods. Groundwater analysis was conducted for the following constituents:

- VOCs EPA SW-846 Method 8260 B Target Compound List
- Total phenols
- Metals
- Inorganic chemicals (major anions including nitrate and cyanide)
- Gross alpha and beta activity
- Radioisotope activity by gamma spectroscopy
- Alkalinity
- TOX
- Radioisotopes by radiochemistry & alpha spectroscopy (radium-226 and -228, uranium-238, -235, and -234)

The samples collected by the Groundwater Surveillance Task for metals, radionuclides, and inorganic chemicals were passed through a 0.45 µm filter and analyzed for the dissolved analyte fraction to conform to NMWQCC standards for groundwater (20 NMAC 6.2). The samples collected for VOCs, mercury, and perchlorate determination were not filtered. Field water quality parameters measured at the time of sample collection are provided in Table GWPP A-9.

# 4.2.1 VOC Analyses

Results for detected VOCs are presented in Appendix A, Table GWPP-A1 and associated MDLs are listed on Table GWPP-A2. VOCs were detected in water samples from 9 monitor wells. Acetone and methylene chloride were detected in the sample from the EOD Hill well. Acetone was also identified in the trip blank. This suggests that the sample may have been contaminated during shipment or in the laboratory. Similarly, methylene chloride was detected in an associated laboratory method blank indicating laboratory contamination of the sample. Seven wells (Greystone-MW2, MRN-2, MRN-3D, NWTA3-MW2, NWTA3-MW3D, PL-2, and PL-3) had detections of carbon disulfide. In all but PL-2, the results are "J" qualified, which indicates the amount detected was above the detection limit but not in sufficient amounts to be reliably quantified. Carbon disulfide was also detected in all associated trip blank samples, except those from NWTA3-MW2 and NWTA3-MW3D. No MCL or MAC concentrations have been established for carbon disulfide. Chloroform was detected at 0.887 μg/L in the sample from the TRE-1 well. The analytical result was also qualified with a "J" designation. Although there is no specific MCL established for chloroform, an MCL of 0.1 mg/L is established for total trihalomethanes, like chloroform. In drinking water systems, trihalomethanes are the product of disinfection chemicals. The MAC established by the NMWQCC for chloroform is 100 μg/L.

# 4.2.2 Inorganic Compounds and Phenolics

Non-metallic inorganic constituents analyzed in groundwater samples included phenolics and TOX, total cyanide, alkalinity, and ions (including bromide, chloride, fluoride, sulfate, and NPN [reported as nitrogen]). Perchlorate analysis was conducted on the samples collected from EOD Hill and designated COOC wells. Analytical results are given in Appendix A, Table GWPP-A4, with MCLs and MACs included for comparison.

None of the analytes exceeded the MCLs associated with drinking water standards at any of the wells sampled. Fluoride concentrations in 4 wells and 1 spring exceeded the MAC of 1.6 mg/L as established by the NMWQCC as the human health standard for groundwater. The wells TRE-1, Coyote Springs, SFR-2S, and SFR-4T are located east of the Tijeras fault zone. The fluoride values in these wells range from 1.61 mg/L in SFR-2S to 2.67 mg/L in SFR-4T. The fluoride concentration in the TRE-1 well was reported as 1.67 mg/L. Groundwater in this region is highly mineralized and lies outside the main aquifer system in the Albuquerque Basin. In one well, SWTA3-MW4, located in the southwest corner of TA-III on the eastern fringe of the Albuquerque Basin aquifer, a fluoride concentration of 1.82 mg/L was detected; however, that is not characteristic of water in this aquifer where fluoride concentration values are less than 1 mg/L. None of the groundwater samples exceeded the NMED Drinking MCL of 4 mg/L. Perchlorate was not detected greater than MDL in wells sampled per the COOC. Perchlorate was detected in the EOD Hill well at concentrations of 1.26 mg/L and 1.08 mg/L. Perchlorate results are summarized in Appendix A, Table GWPP A-3.

#### **4.2.3 Metals**

Dissolved metals and total mercury results are listed in Appendix A, Tables GWPP-A5 and GWPP-A6. Results are consistent with results reported for the same locations in previous years. Starting in March 1996,

groundwater samples for inorganics were filtered and analyzed for dissolved metals as required by NMWQCC standards for groundwater. Prior to 1996, metals analyses were performed on unfiltered groundwater, giving a total metals content. Dissolved metals analysis results generally report concentrations comparable to or lower than concentrations reported for total metals analysis, since the total metals analysis may include natural constituents present such as undissolved, suspended particles. Dissolved metals usually occur as natural trace concentrations and are significantly below regulatory limits.

Groundwater samples were analyzed for the following dissolved metals:

Aluminum	Antimony	Arsenic	Barium
Beryllium	Cadmium	Calcium	Chromium
Cobalt	Copper	Iron	Lead
Magnesium	Manganese	Nickel	Potassium
Selenium	Silver	Sodium	Thallium
Zinc	Uranium	Vanadium	

Mercury was also analyzed from an unfiltered sample and is reported as total mercury. The analysis of the water sample from Coyote Springs yielded a beryllium concentration of  $8.05~\mu g/L$ , which exceeds the  $4.0~\mu g/L$  MCL for beryllium. Beryllium is a natural constituent of groundwater at this location. A graph of the trend of beryllium concentrations in water samples from Coyote Springs is provided in Figure 4-5. The uranium concentration in the EOD well,  $39~\mu g/L$ , exceeded the recently established MCL of  $39~\mu g/L$  (Figure 4-6). This MCL was based on the toxic characteristics of uranium as a metal. All other analytical results for metals were below MCLs and MACs. Mercury was not detected in any of the groundwater samples.

# 4.2.4 Radionuclide Activities

# Gamma Spectroscopy

Analytical results for radionuclides using gamma spectroscopy are presented in Appendix A, Table GWPP-A7. The analyses were limited to americium-241, cesium-137, cobalt-60, and potassium-40. No specific MCLs or MACs are established for these radioisotopes. None of the radioisotopes were detected above the MDA (minimum detectable activity),

#### Radioisotopic Analysis

Radiometric analyses of samples were conducted for gross alpha, gross beta, radium-226, radium-228, and isotopic uranium. Results are reported as activity levels in Appendix A, Table GWPP-A8 and compared to EPA MCLs, where established.

Uncorrected gross alpha activities for samples from EOD Hill, Greystone-MW2SFR-2S, and TRE-1 exceeded the MCL of 15 pCi/L. When the results are corrected by subtracting the uranium activities at these locations, only the results from the EOD Hill groundwater sample (Figure 4-7) exceed the MCL. Wells with elevated uranium are located east of the Tijeras fault complex (Figure 2-3). In this region, groundwater contacts bedrock material that naturally contains minerals high in uranium.

The radium-226 pCi/L concentration in the SFR-2S well sample (Figure 4-8) was above the MCL of 5 pCi/L for combined radium-226 and radium 228. In this instance the combined concentration value is 8.24 pCi/L.

# 4.2.5 Conclusions

Annual groundwater surveillance sampling for FY06 was conducted during the period of February 14 to March 13, 2006. Fifteen wells and one spring in the GWPP surveillance network were sampled to determine the effects, if any, SNL/NM operations have on groundwater quality at SNL/NM and adjacent areas of KAFB. Groundwater samples were analyzed for VOCs, general inorganic substances, including major ions, metals, and selected radioisotopes (using gamma and alpha spectroscopy and gross alpha and beta counting). Analytical results suggest there is no anthropogenic contamination of groundwater in the locations sampled. Unexplained detections of carbon disulfide occurred in 7 well samples; however, these results are viewed as anomalous since they occurred at locations widely dispersed over the facility, and carbon disulfide has not been previously detected in any of the wells and is not a substance in general use. As expected from historical sampling data, fluoride was slightly above the NMWQCC MAC of 1.6 mg/L in several of the wells located in the eastern portion of KAFB. This is consistent with the composition

of groundwater in contact with bedrock in a highly mineralized area. Beryllium and uranium were the only metals that exceeded the established MCL. Elevated beryllium has been consistently detected in the water from Coyote Springs and is deemed to be of natural origin as a consequence of groundwater in contact with the bedrock in this highly faulted location. The same explanation applies to the elevated uranium in the EOD Hill groundwater sample. None of the select radioisotopes examined with gamma spectroscopy exceed DOE drinking water standards. The exceedance of the MCL for gross alpha at EOD Hill is derived from the elevated concentration of naturally occurring uranium at this location. The radium-226 activity at SFR-2S was 7.49 pCi/L, which exceeds the EPA standard of 5 pCi/L for the sum of radium-226 and radium-226 activities.

# 4.3 CWL Results

Groundwater monitoring at CWL was performed during October 2005 and April 2006. Groundwater samples were collected from nine monitoring wells. Table 4-2 lists the parameters and wells sampled.

# **Analytes Sampled**

Analytical results are presented in Appendix B, Tables CWL B-1 through CWL B-8. In addition, the Quarterly Closure Progress Reports (SNL 2006b) for CWL provide full details of each sampling event. All analytical results were compared with MCLs. During FY06, groundwater samples were submitted for Appendix IX VOCs, Appendix IX metals plus iron, Appendix IX SVOCs, Appendix IX chlorinated herbicides, PCBs, cyanide, sulfide, and dissolved chromium analyses.

# 4.3.1 Appendix IX VOC, SVOC, Herbicide, and PCB Analyses

Detected VOC, SVOC, herbicide, and PCB results are presented in Appendix B, Table CWL B-1. Associated MDLs for these compounds are provided in Tables CWL B2 through CWL B-4. No VOCs or SVOCs were detected above established MCLs during FY06. No herbicides or PCBs were detected above laboratory MDLs.

# 4.3.2 Cyanide and Sulfide

Cyanide and sulfide results are presented in Appendix B, Table CWL B-5. Cyanide was not detected above the MCL concentration of 0.2 mg/L in FY06 CWL groundwater samples. Cyanide was reported at concentrations from 'not detected at the MDL' to 0.00427 mg/L. There are no established regulatory limits for sulfide. During FY06, sulfide concentrations ranged from 'not detected at the MDL' to 2.40 mg/L.

# 4.3.3 Total Metals

No metals parameters were detected above established MCLs. Detected metals concentrations were comparable to historical values. Results for metals parameters are presented in Appendix B, Table CWL B-6.

#### 4.3.4 Dissolved Metals

Appendix B, Table CWL B-7 summarizes dissolved chromium results in CWL groundwater samples. Dissolved chromium was not detected above the MDL in any sample, except at CWL-MW6U. Chromium was detected in CWL-MW6U below the MCL of 0.10 mg/L at a concentration of 0.0018 mg/L.

# **4.3.5 Water Quality Parameters**

Appendix B, Table CWL B-8 summarizes field water quality measurements prior to sampling and includes temperature, specific conductivity, oxidation-reduction, pH, turbidity, and dissolved oxygen.

#### 4.3.6 Conclusions

All detected analytes from FY06 groundwater samples were detected at concentrations comparable to historical values.

# 4.4 MWL Results

Analytical results for MWL groundwater samples are presented in Appendix C, Tables MWL-C1 through MWL-C6. MWL groundwater samples were analyzed for VOCs, TAL metals and total uranium, NPN, major anions, tritium, gross alpha/beta radioactivity, and gamma-emitting radionuclides. Sampling results were

compared with MCLs, where established. Table 4-3 lists the parameters and wells sampled. Water quality parameters measured at the time of sample collection are provided in Appendix C, Table MWL-C7.

# 4.4.1 VOC Analyses

Appendix C, Table MWL-C1 presents detected VOCs in MWL groundwater for FY06. Table MWL-C2 presents the MDLs for VOCs analyzed. Groundwater samples from MWL monitoring wells showed no detections for VOCs greater than the practical quantitation limits (PQLs), except in one sample. Acetone was detected in the sample from MWL-MW6 at an estimated concentration of 1.89  $\mu$ g/L which is less than the PQL, but greater than the MDL. Detections of acetone in MWL-MW, MWL-MW3, MWL-MW4, and MWL-MW5 were qualified as 'not detected during data validation' due to results from the QC samples. Acetone was also detected in the sample from MWL-BW1, but the result was qualified as 'not detected due to a contamination source' introduced at the laboratory from samples that were not from SNL/NM.

Samples from MWL-MW1 and MWL-MW2 contained low concentrations of carbon disulfide and toluene. These results were qualified as 'not detected during data validation' because of similar concentrations of the compounds in associated QC samples.

#### 4.4.2 NPN

NPN (as nitrogen) was detected below the MCL of 10 mg/L at concentrations ranging from 0.877 mg/L at MWL-MW6 to 4.58 mg/L at MWL-BW1. Analytical results for NPN are presented in Appendix C, Table MWL-C3

# 4.4.3 Major Anions and Alkalinity

Appendix Č, Table MWL-C4 summarizes major anions and alkalinity results for MWL groundwater samples collected during FY06. Fluoride, the only ion analyzed for with a regulatory limit, was detected below the MCL of 4.0 mg/L at concentrations ranging from 0.766 mg/L at MWL-BW1 to 0.997 mg/L at MWL MW4.

#### **4.4.4** Metals

Analytical results for total metals are presented in Appendix C, Table MWL-C5. Unfiltered samples were analyzed for total TAL metals. Chromium concentrations in the sample and duplicate sample from MWL-MW1 (0.219 and 0.208 mg/L, respectively) in Figure 4-9 and in the sample from MWL-MW3 (0.133 mg/L) in Figure 4-10 exceed the EPA MCL of 0.1 mg/L. The samples were reanalyzed for chromium on June 14, 2006, and the reanalyses results confirmed the original analyses. The analytical results for both the original analyses and the reanalyses are included in Table MWL-C5. The chromium concentration in MWL-MW3 represents the first time the MCL has been exceeded in this well. Nickel is only regulated in groundwater for irrigation sources in New Mexico, and, as such, this standard is not applicable to the MWL. Chromium concentrations exceeding EPA MCL values correlate with nickel results and may be attributed to corrosion of Type 304 stainless steel well screens (Oakley & Korte 1996, Goering, T. et al. 2002).

Total uranium results from the April 2006 samples were consistent with data from previous sampling events and are well within the range of total uranium concentrations established by the U.S. Geological Survey (USGS) for the Middle Rio Grande Basin (USGS 2002).

#### 4.4.5 Radionuclide Activities

Radionuclides analyzed in MWL groundwater samples included tritium, gross alpha/beta activities, and gamma-emitting radionuclides. Analytical results are presented in Appendix C, Table MWL-C6 and are compared with EPA MCLs, where established. No radiological parameters were detected above established MCLs.

Gross alpha and beta activity levels were detected above laboratory reporting limits in all environmental samples. Gross alpha activity levels range from  $2.13 \pm 0.547$  pCi/L in the MWL-BW1 sample to  $14.7 \pm 2.23$  pCi/L in the MWL-MW3 sample. Gross beta activity levels range from  $3.11 \pm 0.963$  pCi/L in the MWL-BW1 sample to  $16.1 \pm 2.65$  pCi/L in the MWL-MW3 sample.

Neither tritium (analyzed by EPA Method 906.0) nor gamma-emitting isotopes (analyzed by EPA Method 901.1) were detected above the minimum detectable activity (MDA) in any of the groundwater samples. Uranium-238 and -235 were determined as mass concentrations during metals analysis on the inductively-

TABLE 4-2. Parameters Analyzed at CWL Wells for Each Sampling Period

		-		
Parameter		Oct 05		April 06
Appendix IX VOCs	CWL-BW3	CWL-BW4A	CWL-BW3	CWL-BW4A
	CWL-MW2BL	CWL-MW2BU	CWL-MW2BL	CWL-MW2BU
	CWL-MW4	CWL-MW5L	CWL-MW4	CWL-MW5L
	CWL-MW5U	CWL-MW6L	CWL-MW5U	CWL-MW6L
	CWL-MW6U	CWL-MW2BL (dup)	CWL-MW6U	CWL-BW4A (dup)
	CWL-MW4 (dup)	CWL-MW2BU	CWL-MW6L (dup)	
Appendix IX SVOCs, PCBs, Herbi-	CWI BW3	CWI -BW4A		
cides, and Sulfide	CWL-MW2BL	CWL-MW4		
	CWL-MW5L	CWL-MW5U		
	CWL-MW6L	CWL-MW6U		
	CWL-MW2BL (dup)	CWL-MW4 (dup)		
Total Cyanide	CWL-BW3	CWL-BW4A		
	CWL-MW2BL	CWL-MW2BU		
	CWL-MW4	CWL-MW5L		
	CWL-MW5U	CWL-MW6L		
	CWL-MW6U	CWL-MW2BL (dup)		
	CWL-MW4 (dup)			
Total Metals (Appendix IX plus iron)	CWL-BW3	CWL-BW4A	CWL-BW3	CWL-BW4A
	CWL-MW2BL	CWL-MW4	CWL-MW2BL	CWL-MW2BU
	CWL-MW5L	CWL-MW5U	CWL-MW4	CWL-MW5L
	CWL-MW6L	CWL-MW6U	CWL-MW5U	CWL-MW6L
	CWL-MW2BL (dup)	CWL-MW4 (dup)	CWL-MW6U	CWL-BW4A (dup)
	CWL-MW2BU		CWL-MW6L (dup)	
Dissolved Chromium	CWL-BW3	CWL-BW4A		
	CWL-MW2BL	CWL-MW4		
	CWL-MW5L	CWL-MW5U		
	CWL-MW6L	CWL-MW6U		
	CWL-MW2BL (dup)	CWL-MW4 (dup)		

NOTE: Refer to page xi of this report for well descriptions. U and L denote upper and lower completions for nested wells in the same borehole.

coupled plasma mass spectrometer using EPA Method 6020.

### 4.4.6 Conclusions

Annual groundwater sampling was conducted at MWL in April 2006. Chromium in the samples from MWL-MW1 and MWL-MW3 exceed the EPA MCL. The chromium concentration in MWL-MW3 represents the first time the MCL has been exceeded in this well. Sample reanalysis for chromium confirmed the original results. No other inorganic or organic parameters were detected above the corresponding MCLs in any samples.

Groundwater samples collected in April 2006 from MWL monitoring wells showed no organic compounds detected greater than the PQL after data validation and assignment of qualifiers. Estimated concentrations for acetone, less than the PQL but greater than the MDL, are likely inadvertent laboratory-introduced contamination.

Metals analytical results greater than the established MCL were reported for chromium in groundwater samples from MWL-MW1 and MWL-MW3 in April 2006. The chromium concentrations are attributed to corrosion of the stainless steel screens in the monitoring wells (Oakley and Korte 1996, Goering, T. et al. 2002). Total uranium results from the April 2006 samples were consistent with data from previous sampling events, and are well within the range of total uranium concentrations established by the USGS for the Middle Rio Grande Basin (USGS 2002).

No general chemistry parameters exceeded established MCLs in any of the groundwater samples. Radioactivity and radionuclides were not detected at levels greater than the corresponding MCL.

# 4.5 TA-V Results

Quarterly groundwater sampling at TA-V was performed in November/December 2005, January/February/March 2006, May 2006, and August/September 2006. Monitoring well locations are shown in Figure 3-5.

### **Analytes Sampled**

Analytical results from all TA-V wells are presented in Appendix D, Tables TAV-D1 through TAV-D7. Table 4-4 lists the wells and the parameters that were sampled for each quarter in FY06.

# 4.5.1 VOC and PCB Analyses

VOC and PCB results are listed in Appendix D, Table TAV-D1, and the VOC and PCB MDLs are listed in Table TAV-D2. VOCs were detected in samples from TA-V wells at concentrations exceeding MCLs in monitoring wells LWDS-MW1, TAV-MW1, and TAV-MW6. Table 4-7 lists wells that exceeded the TCE MCL of 5  $\mu$ g/L in FY06. Figure 4-11 shows that the TCE concentrations in LWDS-MW1 are slightly decreasing over time. Figure 4-12 shows that the TCE concentrations in TAV-MW1 are slightly increasing over time. Figure 4-13 shows that the TCE concentrations in TAV-MW6 are increasing over time.

# 4.5.2 Inorganic and Other Chemical Analyses

Inorganic chemical analysis results for anions are reported in Appendix D, Table TAV-D4. NPN (reported as nitrogen) results are shown in Appendix D, Table TAV-D3. Table 4-7 shows that nitrate concentrations exceeded the MCL of 10 mg/L in LWDS-MW1 for three of the four quarters of FY06, and TAV-MW1 for the third quarter of FY06. Figure 4-14 shows that the nitrate in LWDS-MW1 has consistently exceeded the MCL over the past six years, and the nitrate concentrations appear to be slightly decreasing over time. Figure 4-15 shows that nitrate in TAV-MW1 rarely exceeds the MCL and appears to be slightly increasing over time.

#### **4.5.3 Metals**

In FY06, total metals analyses were conducted for various wells (Table 4-4). No metals were detected above established MCLs. Results for all metals analyses are shown in Appendix D, Table TAV-D5.

TABLE 4-3. Parameters Sampled at the MWL

Parameter	(Aı	April 2006 nnual Sampling)
VOCs	MWL-BW1 MWL-MW2 MWL-MW3 MWL-MW5	
NPN (as Nitrogen)	MWL-BW1 MWL-MW2 MWL-MW3 MWL-MW5	MWL-MW1 (dup) MWL-MW2 MWL-MW4 MWL-MW6
TAL Metals and Total Uranium	MWL-BW1 MWL-MW2 MWL-MW3 MWL-MW5	MWL-MW1 (dup) MWL-MW2 MWL-MW4 MWL-MW6
Major Anions	MWL-BW1 MWL-MW2 MWL-MW3 MWL-MW5	MWL-MW1 (dup) MWL-MW2 MWL-MW4 MWL-MW6
Gross Alpha/Beta	MWL-BW1 MWL-MW2 MWL-MW3 MWL-MW5	MWL-MW1 (dup) MWL-MW2 MWL-MW4 MWL-MW6
Tritium	MWL-BW1 MWL-MW2 MWL-MW3 MWL-MW5	MWL-MW1 (dup) MWL-MW2 MWL-MW4 MWL-MW6
Gamma Spectroscopy	MWL-BW1 MWL-MW2 MWL-MW3 MWL-MW5	MWL-MW1 (dup) MWL-MW2 MWL-MW4 MWL-MW6

**NOTE:** Refer to page xi of this report for well descriptions.

VOC = Volatile Organic Compound

TAL =target analyte list

MWL = Mixed Waste Landfill

dup = duplicate

#### 4.5.4 Radionuclide Activities

Gamma spectroscopy, gross alpha/beta, and tritium analyses were conducted on all wells in FY06. Most radionuclide activities were below MCLs, where established. Gross alpha activity in LWDS-MW2 was  $15.7 \pm 1.92$  pCi/L in the August/September 2006 sample, which slightly exceeds the MCL of 15 pCi/L. A reanalysis of this sample had a result of  $5.42 \pm 1.42$  pCi/L. Figure 4-16 shows that gross alpha activities in LWDS-MW2 rarely exceed the MCL. Gamma spectroscopy analysis did not detect any isotopes above associated MDAs, except for potassium-40. Potassium-40 activities were reported in TAV-MW3 and TAV-MW5 at  $57 \pm 50.4$  pCi/L and  $90.9 \pm 62.3$  pCi/L, respectively. Results for gross alpha/beta and tritium are presented in Appendix D, Table TAV-D6.

# 4.5.5 Field Water Quality Measurements

Field water quality parameters are measured during pre-sample purging of each well and include temperature, specific conductivity, oxidation-reduction potential, pH, turbidity, and dissolved oxygen. The parameter measurements made immediately before collecting the sample are presented in Appendix D, Table TAV-D7.

TABLE 4-4. Parameters Sampled at TA-V Wells for Each Sampling Quarter

Parameter	Nov/Dec 2005	Parameter	Jan/Feb/Mar/2006
NPN (reported as Nitrogen) VOCs	AVN-1 AVN-2 LWDS-MW1 LWDS-MW1 (dup) LWDS-MW2 TAV-MW1 TAV-MW1 (dup) TAV-MW2 TAV-MW2 (dup) TAV-MW3 TAV-MW4 TAV-MW5 TAV-MW6 TAV-MW7 TAV-MW8 TAV-MW8	NPN (reported as Nitrogen) VOCs	AVN-1 AVN-2 LWDS-MW1 LWDS-MW2 TAV-MW1 TAV-MW2 TAV-MW3 TAV-MW5 TAV-MW5 TAV-MW5 (dup) TAV-MW6 TAV-MW7 TAV-MW7 (dup) TAV-MW8 TAV-MW8
Parameter	May 2006	Parameter	Aug/Sep 2006
NPN (reported as Nitrogen) VOCs	AVN-1 AVN-2 LWDS-MW1 LWDS-MW2 TAV-MW1 TAV-MW2 TAV-MW2 (dup) TAV-MW3 TAV-MW4 TAV-MW5 TAV-MW6 TAV-MW6 (dup) TAV-MW7 TAV-MW7	Anions Gamma Spec Gross Alpha/Beta Metals NPN (reported as Nitrogen) PCBs Total Uranium Tritium VOCs	AVN-1 AVN-1 (dup) AVN-2 LWDS-MW1 LWDS-MW2 TAV-MW1 (dup) TAV-MW2 TAV-MW3 TAV-MW4 TAV-MW5 TAV-MW6 TAV-MW7 TAV-MW8 TAV-MW8 TAV-MW8 TAV-MW9

**NOTE:** Refer to page xi of this report for well descriptions.

PCB = Polychlorinated bephenyl

NPN = Nitrate plus Nitrite

dup = duplicate

#### 4.5.6 Conclusions

The TA-V groundwater investigation continues to monitor for the site specific COCs of TCE and nitrate. Analytical results from samples collected during FY06 are similar to results from previous years:

- TCE was detected in samples from three TA-V wells at concentrations exceeding the MCL of 5 ug/L. TCE concentrations in these wells vary from slightly decreasing over time;
- Nitrate concentrations exceeded the MCL of 10 mg/L in two TA-V wells, and concentrations range from slightly decreasing to slightly increasing over time; and
- Gross alpha activity in one TA-V 2006 sample slightly exceeding the MCL; however, a reanalysis of this sample had a result of much less than the MCL.

SNL/NM currently is implementing a CME process to address these COCs in TA-V groundwater. A Draft CME Report has been submitted to NMED and is awaiting regulatory review and approval.

# **4.6 TAG Investigation Results**

TAG wells are either screened in the regional aquifer or within a perched GWS several hundred feet above the regional aquifer. COCs include TCE and nitrate, which have been detected at concentrations exceeding the EPA established MCLs for drinking water. Samples were collected from 21 wells (Figure 3-6), including ten perched GWS wells and eleven regional aquifer wells (Table 3-6). Based on the requirements of the TAG Investigation Work Plan, five TAG wells (TA1-W-07, TA2-NW1-325, TA2-W-24, TA2-W-25, and TJA-5) that were sampled prior to FY03 are no longer sampled.

# **Analytes Sampled**

Analytical results are presented in Appendix E, Tables TAG-E1 through TAG-E7. Detailed results of the TAG investigation, including the most recent hydrogeologic conceptual model, are presented in the *Tijeras Arroyo Groundwater Continuing Investigation Report* (SNL 2002a). Field water quality measurements were taken at each well before samples were collected. Table 4-5 lists the analytical parameters for each well sampled.

# 4.6.1 VOC and PCB Analyses

Results for detected VOCs and PCBs are presented in Appendix E, Table TAG-E1, and the VOC PCB MDLs are listed in Table TAG-E2. TCE was detected in groundwater samples from several wells in the perched GWS. Monitoring well WYO-4 (perched GWS) consistently had TCE concentrations above the MCL (5.0  $\mu$ g/L) with a maximum TCE concentration of 7.87  $\mu$ g/L. Figure 4-17 shows that TCE concentrations in well WYO-4 have been consistent to slightly increasing over the short life of the well. In addition, monitoring well TA2-W-19 (perched GWS) had TCE concentrations above the MCL during the October 2005 sampling event, with a maximum concentration of 5.01  $\mu$ g/L. Figure 4-18 shows that the TCE concentrations in well TA2-W-19 have been generally increasing over the life of the well, but are relatively consistent over the last three years.

# 4.6.2 Inorganic Chemical Analyses

Inorganic chemical analyses of quarterly groundwater samples consisted of NPN (reported as nitrogen); major anions such as bromide, chloride, fluoride, and sulfate; and total metals. The results are presented in Appendix E, Table TAG-E3 through TAG-E5.

During FY06 sampling, nitrate exceeded the MCL in five wells. TJA-7, TA2-SW1-320, and TJA-4 had nitrate concentrations two to three times the MCL; whereas, TA2-W-19 and TJA-2 had nitrate concentrations that only slightly exceeded the MCL. Figures 4-19 through 4-23 show that nitrate concentrations in these five wells are generally stable to slightly decreasing over time. All other inorganic analytes were below MCLs, where established.

#### 4.6.3 Radionuclide Activities

Gamma spectroscopy, gross alpha/beta, and tritium analyses were conducted on 21 wells in FY06. All radionuclide activities were below MCLs, where established. Results for tritium, gross alpha/beta, and gamma spectroscopy are presented in Appendix E, Table E-6.

# **4.6.4 Field Water Quality Measurements**

Field water quality parameters are measured during pre-sample purging of each well and include temperature, specific conductivity, oxidation-reduction potential, pH, turbidity, and dissolved oxygen. The parameter measurements made immediately before collecting the sample are presented in Appendix E, Table TAG-E7.

#### 4.6.5 Conclusions

The TAG groundwater investigation continues to monitor for the site specific COCs of TCE and nitrate. Analytical results from samples collected during FY06 are similar to results from previous years.

- TCE was detected in samples from two TAG wells at concentrations exceeding the MCL of 5 ug/L. TCE concentrations in these wells vary from stable over time to slightly increasing over time; and
- Nitrate concentrations exceeded the MCL of 10 mg/L in five TAG wells, and concentrations range

from slightly decreasing to stable over time.

DOE/NNSA and Sandia Corporation currently are implementing a CME process to address these COCs in TAG groundwater. A Draft CME Report has been submitted to NMED and is awaiting regulatory review and approval.

# 4.7 Burn Site Groundwater Results

Quarterly sampling at Burn Site Groundwater monitoring wells in Lurance Canyon was conducted in December 2005, March 2006, June 2006, and September 2006.

**Analytes Sampled** 

Analytical results from all Burn Site Groundwater wells are presented in Appendix F, Tables CYN-F1 through CYN-F9. Table 4-6 lists the wells and the parameters that were sampled for each quarter in FY06.

# 4.7.1 VOCs and Other Organic Compounds

A summary of detected VOCs, SVOCs, and HE results are presented in Appendix F, Table CYN-F1. The MDLs for VOCs, SVOCs, and HE are listed in Table CYN-F2. Results are listed for the diesel-range organics and gasoline-range organics in Appendix F, Table CYN-F5.

No VOCs, SVOCs, or HE compounds were detected above MCLs. Other organics found in groundwater samples included low levels of diesel-range organics in all wells, with up to 61.8 µg/L in a sample from CYN-MW8. All but one of the detections of diesel-range organics were qualified as non-detect during the data validation process. All analyses of samples from monitor wells for gasoline-range organics were non-detect. MCLs have not been established for diesel-range organics or gasoline-range organics.

# 4.7.2 Inorganic and Other Chemical Analyses

Quarterly analytical results for NPN (reported as nitrogen), perchlorate, and major ions are presented in Appendix F, Tables CYN-F3, CYN-F4, and CYN-F6, respectively.

NPN results exceeded the MCL of 10 mg/L in all samples from CYN-MW6 in all sampling events. Figure 4-24 shows that nitrate concentrations in this well have consistently exceeded the MCL. The samples from well CYN-MW6 consistently had perchlorate above the 0.004 mg/L detection limit. No MCL currently exists for perchlorate in groundwater. All other major ion results were below established MCLs.

#### **4.7.3** Metals

Metal analysis results are presented in Appendix F, Table CYN-F7. There were no metal results that exceeded established MCLs

#### 4.7.4 Radionuclide Activities

Groundwater samples were analyzed for gross alpha, gross beta, tritium, and gamma spectroscopy. Results for gross alpha, gross beta, and tritium are presented in the table in Appendix F, CYN-F8. All radionuclide activities were below MCLs, except for gross alpha in wells CYN-MW4 and CYN-MW8. Figure 4-25 shows that gross alpha in CYN-MW4 has consistently exceeded the MCL over the life of the well. CYN-MW8 has only been sampled once for gross alpha; therefore, no trend graph is provided. Gamma spectroscopy analysis did not detect any isotopes above associated MDAs.

# 4.7.5 Field Water Quality Measurements

Field water quality parameters are measured during pre-sample purging of each well and include temperature, specific conductivity, oxidation-reduction potential, pH, turbidity, and dissolved oxygen. The parameter measurements made immediately before collecting the sample are presented in Appendix F, Table CYN-F9.

#### 4.7.6 Conclusions

Parameter	Oct/Nov 2005	Parameter	Jan/Feb 2006	Parameter	April/May 2006	Parameter	July/Aug 2006
Nitrate plus Nitrite	TA2-SW1-320 (QED)	Nitrate plus Nitrite	TA2-SW1-320 (QED)	Nitrate plus Nitrite	TA2-SW1-320 (QED)	Anions	PGS-2 (QED)
(reported as	TA2-W-19	(reported as	TA2-W-01	(reported as	TA2-SW1-320 (QED) (dup)	Gamma spec	TA1-W-01
Nitrogen)	TA2-W-26	Nitrogen)	TA2-W-19	Nitrogen)	TA2-W-01	Gross alpha/beta	TA1-W-02
VOCs	TJA-2	VOCs	TA2-W-19 (dup)	VOCs	TA2-W-19	Metals	TA1-W-03
	TJA-4		TA2-W-26		TA2-W-19 (dup)	Nitrate plus Nitrite	TA1-W-04
	TJA-7		TA2-W-27		TA2-W-26	(reported as Nitro-	TA1-W-05
	WYO-4		TJA-2		TA2-W-26 (dup)	Topolica as Mino-	TA1-W-06
			TJA-3		TA2-W-27	gen)	TA1-W-08
			T.IA-4		TJA-2	PCBs	TA1-W-08 (dup)
			TIA-6		TIA-3	Tritium	TA2-NW1-595
			TIA 6 (duns)		TIV 7	VOCs	TA2 SW1 320 (OFD)
			TJA-0 (dup)		13/A-4		TA2 W 01
			LJA-/		LJA-6		IA2-w-01
			WYO-4		TJA-7		TA2-W-19
					WYO-3		TA2-W-26
					WYO-4		TA2-W-27
					WYO-4 (dup)		TJA-2
							TJA-3
							TJA-4
							TJA-4 (dup)
							TJA-6
							TJA-7
							WYO-3
							WVO-4
ITO							

Notes to page at or this report for well descriptions.

VOC = Volatile Organic Compound; TAG = Tijeras Arroyo Groundwater; dup = duplicate, QED = micro-purge, low-flow sampling method

TABLE 4-6. Parameters Sampled at Burn Site Groundwater Wells for Each Sampling Quarter

Parameter	Dec 2005	Parameter	Mar 2006
Nitrate plus Nitrite (reported as Nitrogen) Perchlorate	CYN-MW1D	Nitrate plus Nitrite (reported as Nitrogen) Perchlorate	CYN-MW1D CYN-MW1D (dup) CYN-MW6 CYN-MW6 (dup) CYN-MW7 CYN-MW8
		TPH—GRO	CYN-MW6 (dup)
Parameter	June 2006	Parameter	Sep 2006
Nitrate plus Nitrite (reported as Nitrogen) Perchlorate	CYN-MW1D CYN-MW6 CYN-MW6 (dup) CYN-MW7 CYN-MW8	Nitrate plus Nitrite (reported as Nitrogen)	CYN-MW1D CYN-MW3 CYN-MW4 CYN-MW6 CYN-MW7 CYN-MW8 CYN-MW8 (dup)
TPH—DRO TPH—GRO	CYN-MW1D CYN-MW3 CYN-MW4 CYN-MW6 CYN-MW6 (dup) CYN-MW7 CYN-MW8	Perchlorate	CYN-MW1D CYN-MW6 CYN-MW7 CYN-MW8 CYN-MW8 (dup)
Anions Gamma Spec Gross Alpha/Beta HE Metals SVOCs Tritium VOCs	CYN-MW1D CYN-MW3 CYN-MW4 CYN-MW6 CYN-MW7 CYN-MW8	TPH—DRO TPH—GRO	CYN-MW6

**NOTE:** Refer to page xi of this report for well descriptions.

TPH-DRO = Total Petroleum Hydrocarbons-Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics

VOC = Volatile Organic Compound

SVOC = Semi-volatile Organic Compound

NPN = Nitrate Plus Nitrite TAL = target analyte list

HE = High Explosives

The Burn Site Groundwater investigation continues to monitor for the site-specific COC of nitrate. Analytical results from samples collected during FY06 are considerably different from previous years. Nitrate concentrations exceeded the MCL of 10 mg/L in one newly installed Burn Site Groundwater Area well. Although there is a limited amount of data at this well, concentrations appear to be stable to slightly increasing over time.

DOE/NNSA and Sandia Corporation currently are implementing an Interim Measures and CME process to address these COCs in Burn Site Groundwater. A Draft Interim Measures Work Plan has been submitted to NMED and is currently awaiting regulatory review and approval.

**TABLE 4-7.** Summary of Exceedances at Sampling Wells in Fiscal Year 2006

Analyte	Wells	Exceedance	Date
BERYLLIUM MCL = 0.004 mg/L	Coyote Springs	0.00805 mg/L	February/March 2006
RADIUM 226 MCL = 5 pCi/L 226 + 228	SFR-2S	8.24 pCi/L	February/March 2006
FLUORIDE MAC = 1.6 mg/L	Coyote Springs	1.64 mg/L	February/March 2006
	SFR-2S	1.61 mg/L	February/March 2006
	SFR-4T	2.67 mg/L	February/March 2006
	SFR-4T (dup)	2.66 mg/L	February/March 2006
	TRE-1	1.62 mg/L	February/March 2006
	SWTA3-MW4	1.82 mg/L	February/March 2006
URANIUM MCL = 0.030 mg/L	EOD	0.039 mg/L	February/March 2006
CHROMIUM MCL = 0.1 mg/L	MWL-MW1	0.219/0.232 mg/L+	April 2006
	MWL-MW1 (dup)	0.208/0.197 mg/L+	April 2006
THEE VITINGE	MWL-MW3	0.133/0.169 mg/L+	April 2006
	LWDS-MW1	15.3 μg/L	November/December 2005
	LWDS-MW1	15.8 μg/L	January/February/March 2006
	LWDS-MW1	14.9 μg/L	May 2006
	LWDS-MW1	12.9 μg/L	August/September 2006
	TAV-MW1	5.37 μg/L	May 2006
TRICHLOROETHENE (TCE)	TAV-MW1 (dup)	5.81 μg/L	November/December 2005
$MCL = 5 \mu g/L$	TAV-MW6	6.34 μg/L	August/September 2006
	TA2-W-19	5.07 μg/L	October/November 2005
	WYO-4	7.61 μg/L	October/November 2005
	WYO-4	7.85 μg/L	January/February 2006
	WYO-4	6.73 μg/L	April/May 2006
	WYO-4	7.87 μg/L	July/August 2006

**TABLE 4-7.** Summary of Exceedances at Sampling Wells in Fiscal Year 2006 (concluded)

Analyte	Wells	Exceedance	Date
	LWDS-MW1	10.6 mg/L	November/December 2005
	LWDS-MW1	13.3 mg/L	January/February/March 2006
	LWDS-MW1	13.0 mg/L	August/September 2006
	TAV-MW1	12.0 mg/L	May 2006
	TA2-SW1-320	25.2 mg/L	October/November 2005
	TA2-SW1-320	25.2 mg/L	January/February 2006
	TA2-SW1-320	25.5 mg/L	April/May 2006
	TA2-SW1-320 (dup)	24.9 mg/L	April/May 2006
	TA2-SW1-320	28.8 mg/L	July/August 2006
	TA2-W-19	10.2 mg/L	January/February 2006
	TA2-W-19 (dup)	10.2 mg/L	January/February 2006
	TJA-2	10.1 mg/L	January/February 2006
NPN (AS NITROGEN) MCL = 10 mg/L	TJA-7	25.4 mg/L	October/November 2005
WCL - 10 mg/L	TJA-7	26.1 mg/L	January/February 2006
	TJA-7	25.2 mg/L	April/May 2006
	TJA-7	17.4 mg/L	July/August 2006
	TJA-4	28.0 mg/L	October/November 2005
	TJA-4	29.0 mg/L	January/February 2006
	TJA-4	28.9 mg/L	April/May 2006
	TJA-4	27.5 mg/L	July/August 2006
	TJA-4 (dup)	20.6 mg/L	July/August 2006
	CYN-MW6	23.9 mg/L	March 2006
	CYN-MW6 (dup)	24.1 mg/L	March 2006
	CYN-MW6	32.6 mg/L	June 2006
	CYN-MW6 (dup)	29.5 mg/L	June 2006
	CYN-MW6	30.4 mg/L	September 2006
GROSS ALPHA (CORRECTED) MCL = 15 pCi/L	EOD	21.68 pCi/L*	February/March 2006
GROSS ALPHA (UNCORRECTED)	LWDS-MW2	15.7 ± 1.92 pCi/L	August 2006
MCL = 15  pCi/L	CYN-MW4	37.8 ± 11.1 pCi/L	June 2006
	CYN-MW8	$34.0 \pm 10.6 \text{ pCi/L}$	June 2006

**NOTES:** dup = duplicate  $\mu$ g/L = micrograms per liter mg/L = milligrams per liter pCi/L = picocuries per liter
MCL = maximum contaminant level MAC = maximum allowable concentration

st Uncorrected gross alpha results for GAPP samples from SFR-2S, and TRE-1 exceeded the MCL of 15.0 pCi/L. When the results are corrected by subtracting the uranium activity, the results for SFR-2 and TRE-1 are below the MCL.

<sup>+</sup>Second values are for samples reanalyzed by the laboratory.

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# 4.8 Trend Graphs

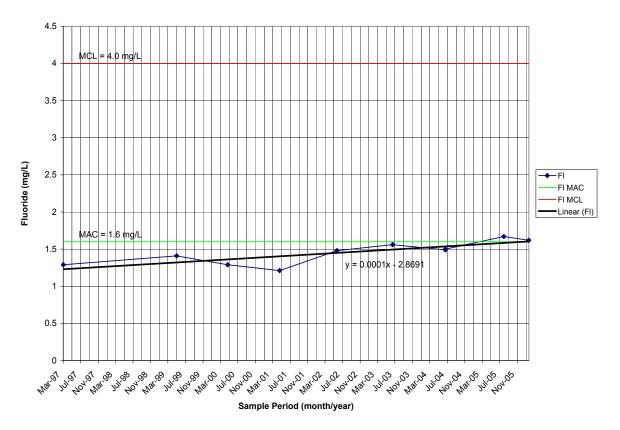


FIGURE 4-1. Fluoride Concentrations, TRE-1

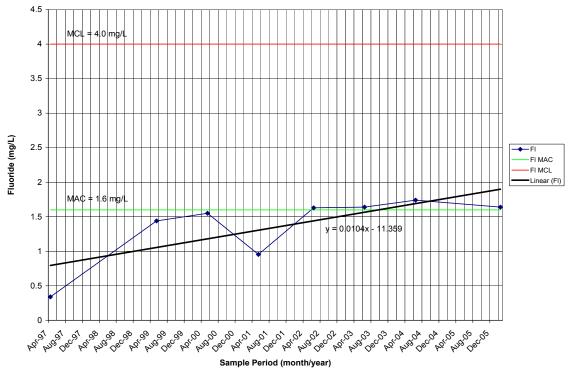


FIGURE 4-2. Fluoride Concentrations, Coyote Springs

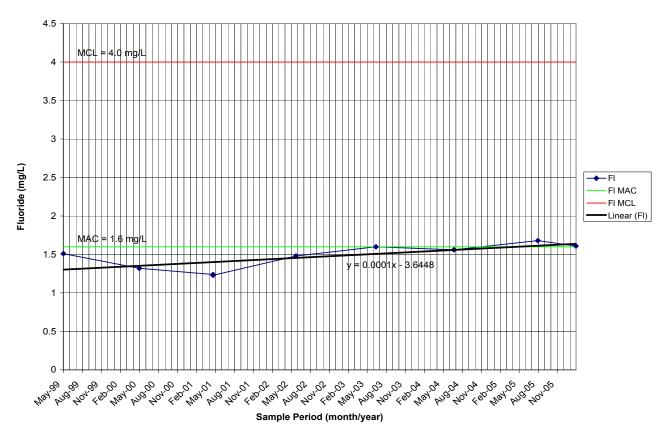


FIGURE 4-3. Fluoride Concentrations, SFR-2S

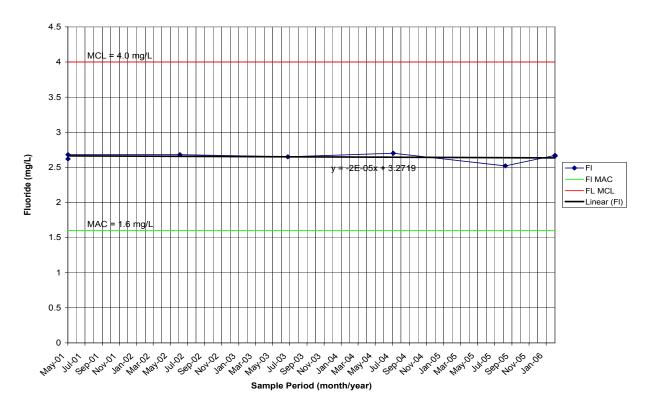


FIGURE 4-4. Fluoride Concentrations, SFR-4T

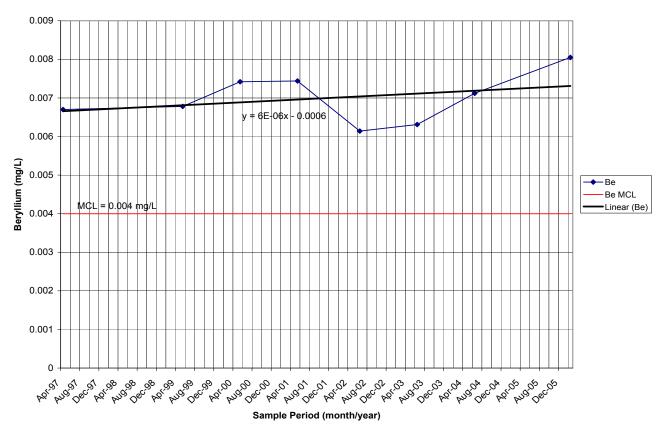


FIGURE 4-5 Beryllium Concentrations, Coyote Springs

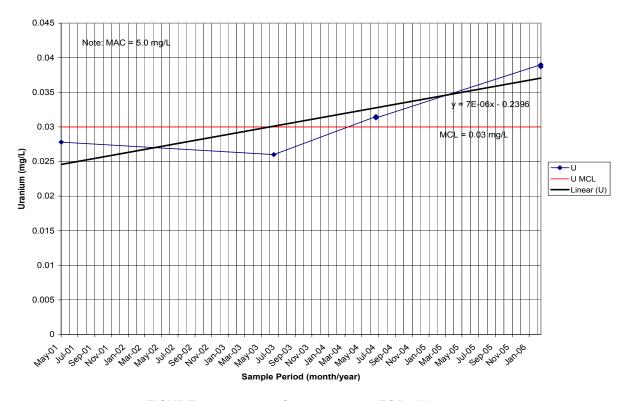


FIGURE 4-6 Uranium Concentrations, EOD Hill

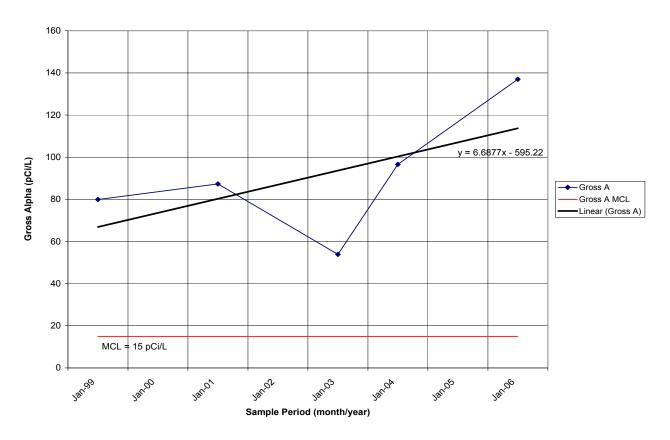


FIGURE 4-7. Gross Alpha Activities, EOD Hill

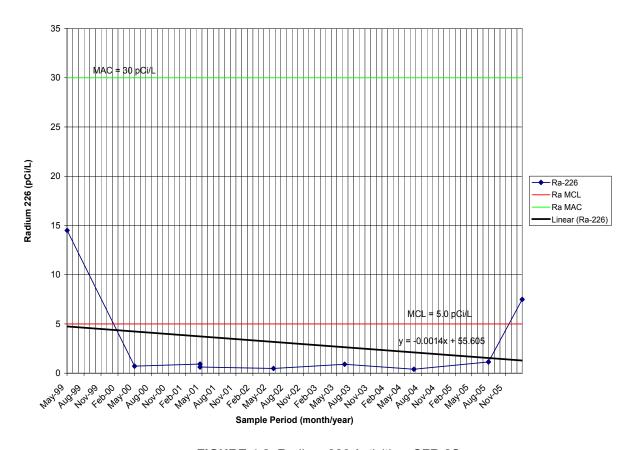


FIGURE 4-8. Radium-226 Activities, SFR-2S

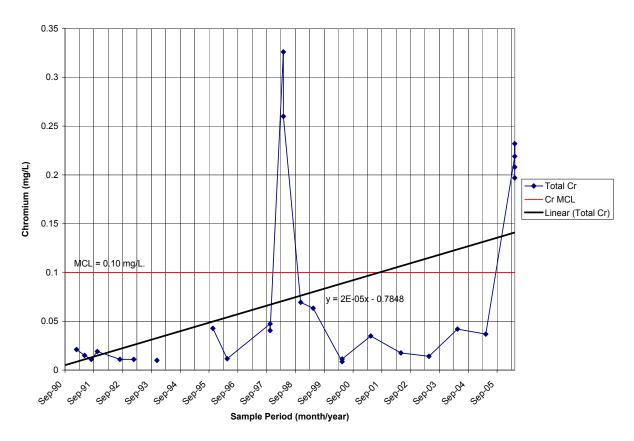


FIGURE 4-9. Chromium Concentrations, MWL-MW1

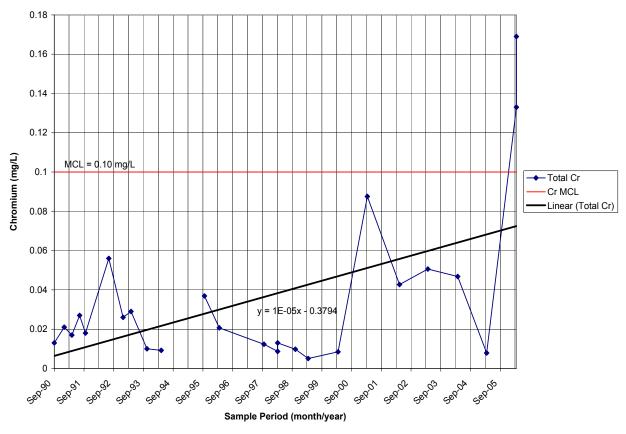


FIGURE 4-10 Chromium Concentrations, MWL-MW3

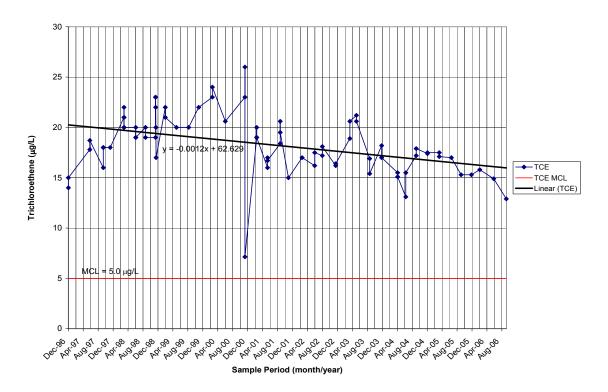


FIGURE 4-11. TCE Concentrations, LWDS-MW1

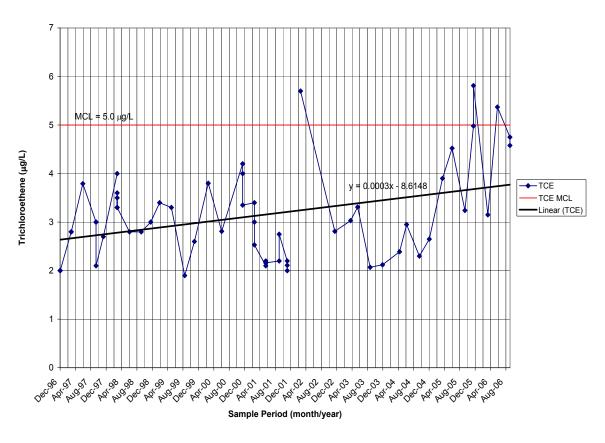


FIGURE 4-12. TCE Concentrations, TAV-MW1

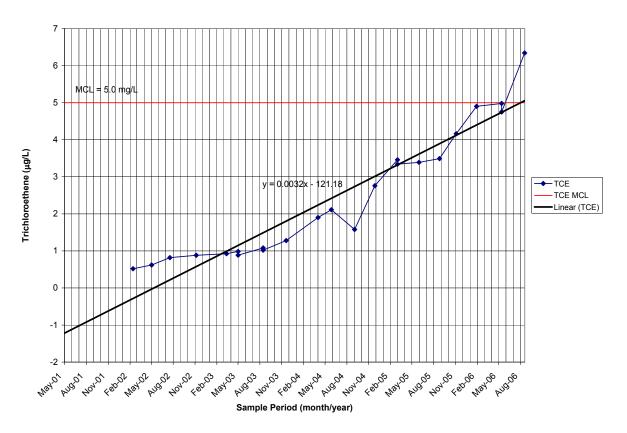


FIGURE 4-13. TCE Concentrations, TAV-MW6

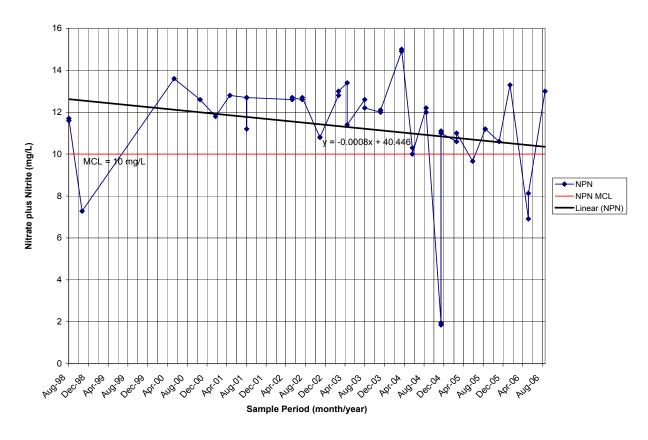


FIGURE 4-14. Nitrate plus Nitrite Concentrations, LWDS-MW1



FIGURE 4-15. Nitrate plus Nitrite Concentrations, TAV-MW1

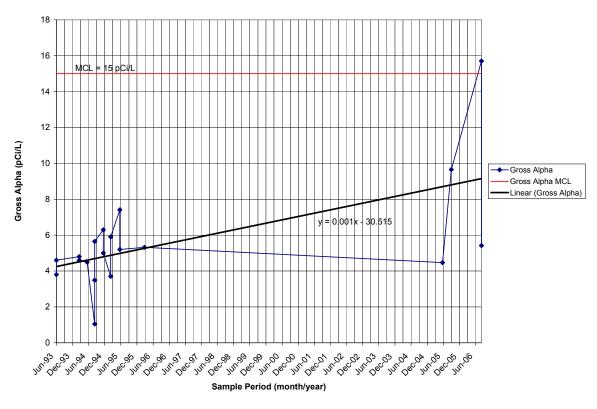


FIGURE 4-16. Gross Alpha Activities, LWDS-MW2

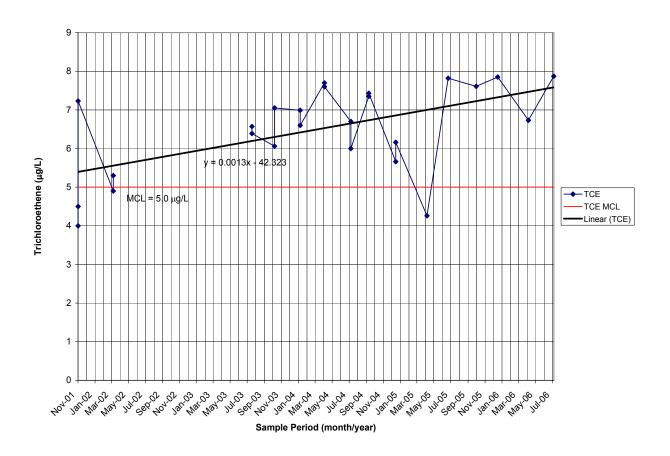


FIGURE 4-17. TCE Concentrations, WYO-4

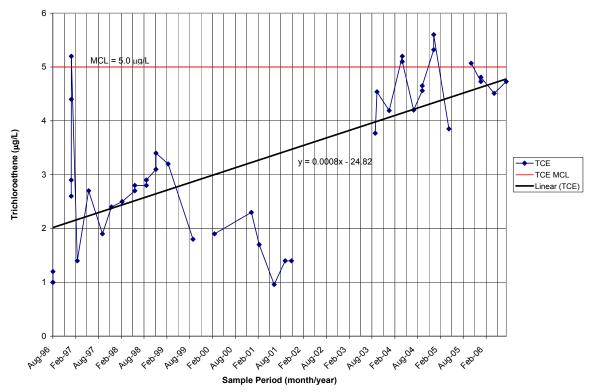


FIGURE 4-18. TCE Concentrations, TA2-W-19



FIGURE 4-19. Nitrate Plus Nitrite Concentrations, TJA-7

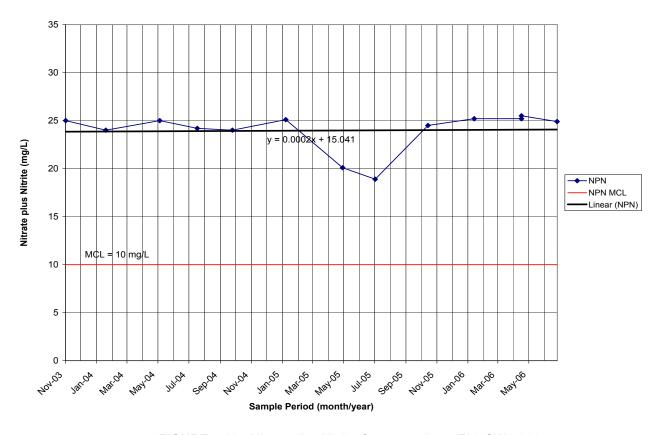


FIGURE 4-20. Nitrate plus Nitrite Concentrations, TA2-SW1-320

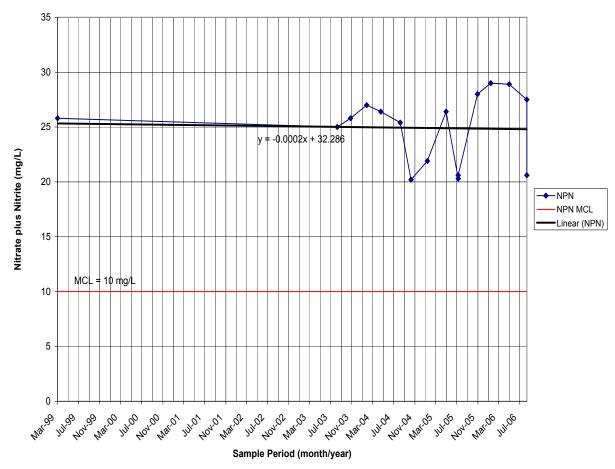


FIGURE 4-21. Nitrate plus Nitrite Concentrations, TJA-4

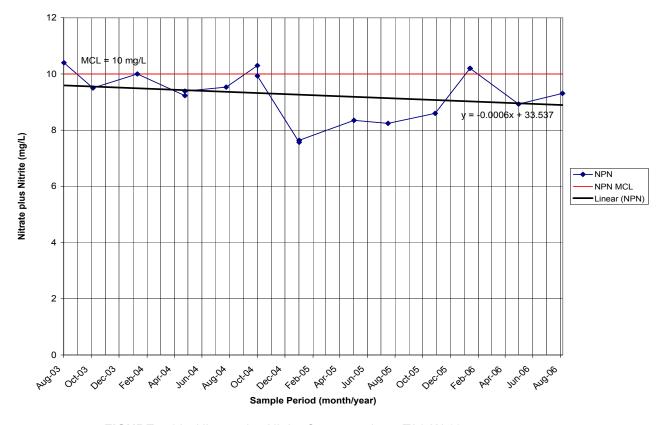


FIGURE 4-22. Nitrate plus Nitrite Concentrations, TA2-W-19

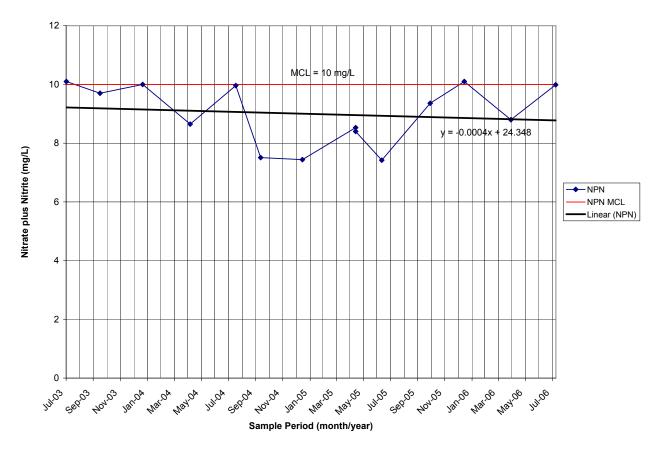


FIGURE 4-23. Nitrate Plus Nitrite Concentrations, TJA-2

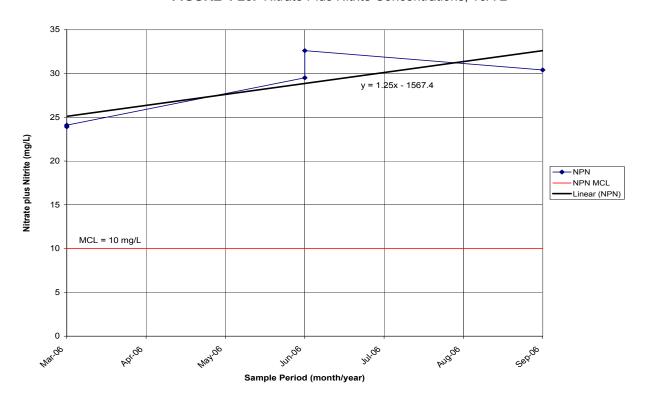


FIGURE 4-24. Nitrate plus Nitrite Concentrations, CYN-MW6

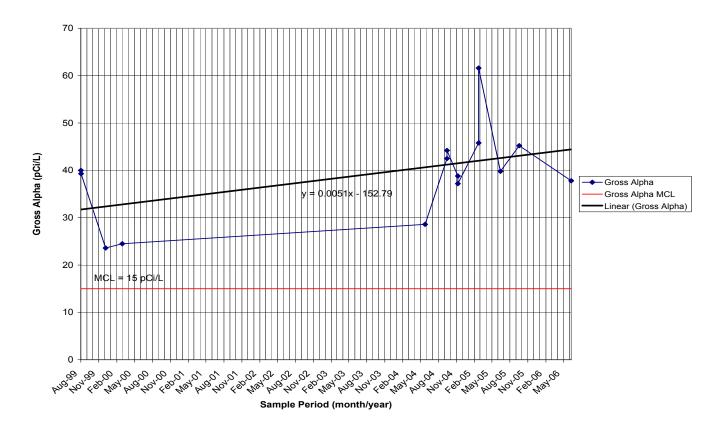


FIGURE 4-25 Gross Alpha Performance, CYN-MW4

Groundwater levels are a measure of the state of the water balance of this groundwater system. These levels provide a direct measure of the relative amount of water in storage in the aquifer. Changing water levels reflect the difference between recharge and withdrawal from the aquifer. In addition, the rate of change of water levels at a monitor well screened across this water table provides a reliable measure of the useful lifetime of the well. Groundwater recharge is difficult to measure directly. Precipitation can be used as an indirect measure of recharge potential. Available precipitation also impacts demand on groundwater withdrawal. Water pumped by water wells is the principle measure of groundwater withdrawal in the vicinity of KAFB. During FY06, water level measurements were obtained from 141 wells within, and immediately outside, the boundaries of KAFB to determine groundwater flow directions, hydraulic gradients, and changes in water table elevations. Frequency of measurement may be quarterly or monthly, depending on the data source and well characteristics. This chapter describes precipitation, water well production, and water level measurement data collected to better understand the dynamic nature of the groundwater system in the vicinity of SNL/NM. In FY06, the GWPP and the ER Project measured water levels in 62 monitoring wells on a monthly or

# Chapter Five water level measurements

quarterly basis, depending on the well. Additional water level data were obtained from the 79 wells that are owned by either KAFB, the COA, or the New Mexico State Engineers Office. Table 5-1 shows the number of wells measured by each contributing organization.

#### 5.1 Groundwater Recharge & Withdrawal

Factors influencing water level elevation changes include potential recharge from precipitation and groundwater withdrawal by production wells.



Drilling Operations at SNL/NM

TABLE 5-1. Water Levels Measured by SNL/NM and Other Agencies

Total Wells	Measuring Agency	Well Owner	Location
21	GWPP	DOE/NNSA	Site-wide surveillance network wells
41	ER Project	DOE/NNSA	CWL, MWL, TA-V, TAG Investigation, and Burn Site Groundwater Area
65	USAF IRP Program	KAFB	IRP Long-term Monitoring Program
12	COA	COA	Eubank Landfill north of KAFB and Yale Avenue Landfill west of KAFB
1	USGS	New Mexico State Engineers Office	Mesa del Sol well
1	USGS	COA	MP-MW3 (Montessa Park) well

**NOTE:** (1) Refer to page xi of this report for well descriptions.

IRP = Installation Restoration Program USGS = United States Geological Survey

GWPP = Groundwater Protection Program ER = Environmental Restoration

SNL/NM = Sandia National Laboratories, New Mexico

KAFB = Kirtland Air Force Base USAF = United States Air Force

#### 5.1.1 Annual Precipitation

The regional climate for the Albuquerque Basin area is semi-arid. Long-term average precipitation ranges from 9.47 inches per year (in/yr) (30 year norm) at AIA to up to 35 in/yr at the crest of the Sandia Mountains. The normal seasonal distribution of precipitation in the Albuquerque area indicates the majority occurring during the period of June through August. Precipitation data significant to KAFB hydrogeology are available from 4 locations. Three meteorological towers are used to measure precipitation on-site at KAFB: the A21 tower east of Tech Area II, the A36 tower located in Tech Area III, and the SC1 tower located near Schoolhouse Well in the foothills of the Manzanita Mountains. The fourth source is the National Weather Service station at AIA, adjacent to KAFB (Figure 3-7). FY06 annual precipitation at the four sites is shown in Table 5-2. The 11.56 inches of precipitation measured at AIA from October 2005 to September 2006 is 2.09 inches above the 30 year norm of 9.47 inches, as computed over the corresponding 12 month interval. The table also shows the precipitation amounts in FY05 for comparison. The FY06 monthly precipitation for all four locations during FY06 is illustrated in Appendix G, Figure G-1.

#### **5.1.2** Groundwater Withdrawal

KAFB production wells (Figure 3-1) are screened over a depth from about 500 to 2,000 ft bgs and extract groundwater from the upper and middle unit of the Santa Fe Group. During FY06, KAFB pumped groundwater from 10 water supply wells. KAFB annual groundwater production in FY05 and FY06 is shown in Table 5-3.

TABLE 5-2. FY05-06 Precipitation Data at KAFB

Site	A21	A36	SC1	AIA
FY05	13.96	12.05	11.72	12.99
FY06	12.92	13.57	12.15	10.97

**NOTE:** AIA = Albuquerque International Airport

Data are in inches of rainfall

In FY06, KAFB purchased an additional 435,000 gal from COA. KAFB supplies all the water for SNL/NM and other DOE facilities located on KAFB. Appendix G, Figure G-3 shows the FY06 total monthly production for KAFB water supply wells. The highest level of production was 132,548,000 gals in July 2006; the lowest was 54,035,000 gals in March 2006. Appendix G, Figure G-4 shows the FY06 monthly production for each KAFB water supply well. Appendix G, Figure G-5 shows the trend of total annual groundwater production at KAFB by all wells, starting with 1996.

KAFB-1	KAFB-11 <sup>(3)</sup>	KAFB-2	KAFB-14
KAFB-3	KAFB-15	KAFB-4	KAFB-16
KAFB-7 <sup>(1)</sup>	KAFB-17 <sup>(2)</sup>		

**NOTE:** (1) Water used for Golf Course Irrigation only

TABLE 5-3. Total KAFB Groundwater Production

	FY05	FY06
Million gals	1,096	1,083
Acre-feet	3,362	3,323

#### **5.2 Water Table Elevations**

#### 5.2.1 Construction of Regional Water Table Elevation Map

Water level data from monitor wells installed by DOE/NNSA and Sandia Corporation, KAFB IRP, COA, and the State of New Mexico were used to construct the FY06 regional water table elevation contour map shown in Figure 5-1. The extent of the contoured area was constructed using September and October FY06

<sup>(2)</sup>Located at the Helicopter landing site along the southern boundary of KAFB

<sup>(3)</sup> This well pumped briefly for an evaluation period and was shut down for the majority of the year.

static water level data from 53 wells completed in the regional aquifer underlying KAFB. The water level data for wells used in this construction should be measured at the same time; however, the time required to collect data from a large number of wells, the frequency of water level measurement, and the reliability of some of the measurements necessitate a broader range of collection dates than is ideal. These wells are screened across the regional water table in the upper unit of the Santa Fe Group. They penetrate different depths into the aquifer and have different lengths of screened interval. Although most of the water level data represent an unconfined water table, some water levels measured in a few wells may represent semiconfined aquifer conditions.

#### 5.2.2 Regional Groundwater Flow System

Contouring regional water level elevations provides information on groundwater dynamics. The direction of groundwater flow is the same as the potentiometric gradient. The orientation of the gradient is perpendicular to the contour lines. The gradient is in the direction from the higher water level contour to the lower contour level. Groundwater flow directions inferred from Figure 5-1 may not accurately represent small-scale, localized groundwater flow patterns; however, the regional water level contours indicate the large-scale horizontal direction of groundwater movement across the KAFB area. In general, the open-to-the-north, U-shaped contour lines depicted in Figure 5-1 define an elongated depression in the water table with a north-south orientation. This depression or trough extends as far south as Isleta Pueblo Reservation. The KAFB and COA Ridgecrest well fields are located near the northern boundary of KAFB. The depression of the water table is the result of the large amount of groundwater withdrawal by the water supply wells.

The contour line gradient indicates groundwater flow towards these supply wells. The flat gradient in the middle of the trough is characteristic of flow through the highly permeable sediments of the ancestral Rio Grande fluvial deposits, which are the most productive aquifer material in this area. The contours define the collective zones of influence of these large well fields. The direction of groundwater flow in the vicinity of KAFB (west of the Tijeras fault complex), as inferred from the contour lines, is west and northwest. This is a radical change from the historical southwesterly direction before Albuquerque entered into a significant period of population growth (Bjorklund and Maxwell 1961). This change in flow direction is a direct result of the dramatic increase in groundwater pumping. The steep gradients in the water table along the eastern edge of the map are primarily due to the presence of faults, shown in Figure 2-2, and Figure 2-3, that impede the westward movement of groundwater.

A comparison between the FY05 and FY06 water table maps reveals that the contour lines defining the trough continue slowly to migrate to the south, indicating an ongoing decline of the water table in this region. The rate of decline in water levels over the past FY continues at a rate of 1.2 ft over the previous year, as illustrated in the Figure 5-2, which represents the change in the FY06 water table water minus the corresponding values for the FY05 water table elevation. Increases in the elevation of the water table in the northeast quadrant of the figure during the period of FY06 are likely due to groundwater recharge from the Tijeras Arroyo.

#### **5.2.3 Perched Groundwater System (PGWS)**

During monitor well installation for groundwater characterization in TA-2 in 1993, a shallow water bearing zone was encountered at a depth of 300 ft bgs. This was 200 feet above the regional water table which was the target for the borehole. Subsequent well installations extended the boundaries of the PGWS to its current definition. As currently defined, the areal extent of the SGWS is approximately 3.5 square miles. The western limits appear to be along a northwest line immediately west of the former KAFB sewage lagoons. The northern defined limits coincide with the northern edge of TA-I. To the east, the PGWS has been confirmed in the KAFB IRP monitor wells east of the KAFB Landfill. The southern extent appears to be near the south edge of the golf course.

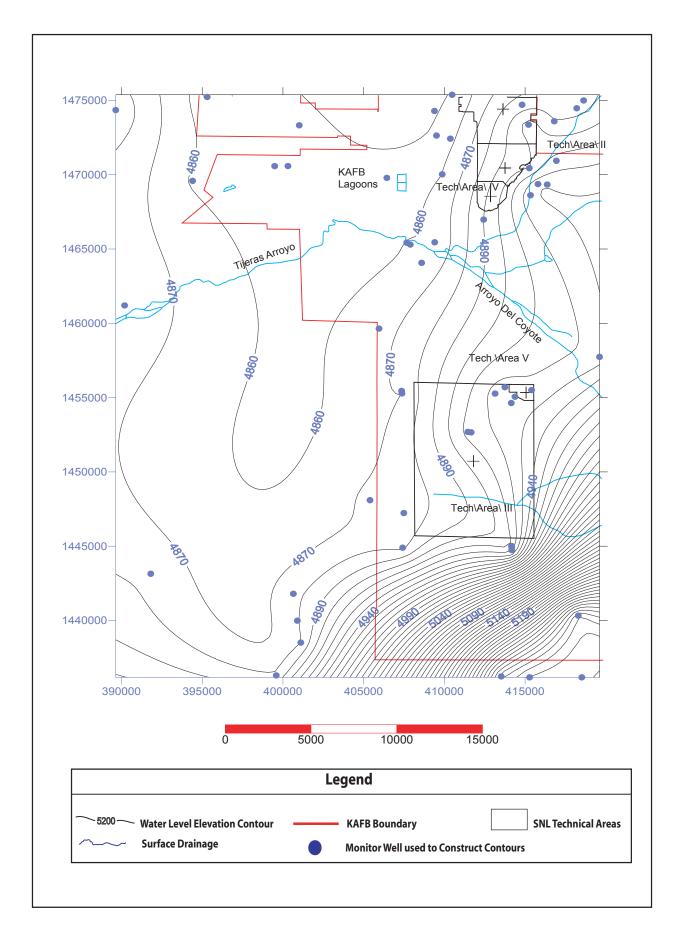


FIGURE 5-1 Regional Groundwater Elevation Map for SNL/KAFB, FY06

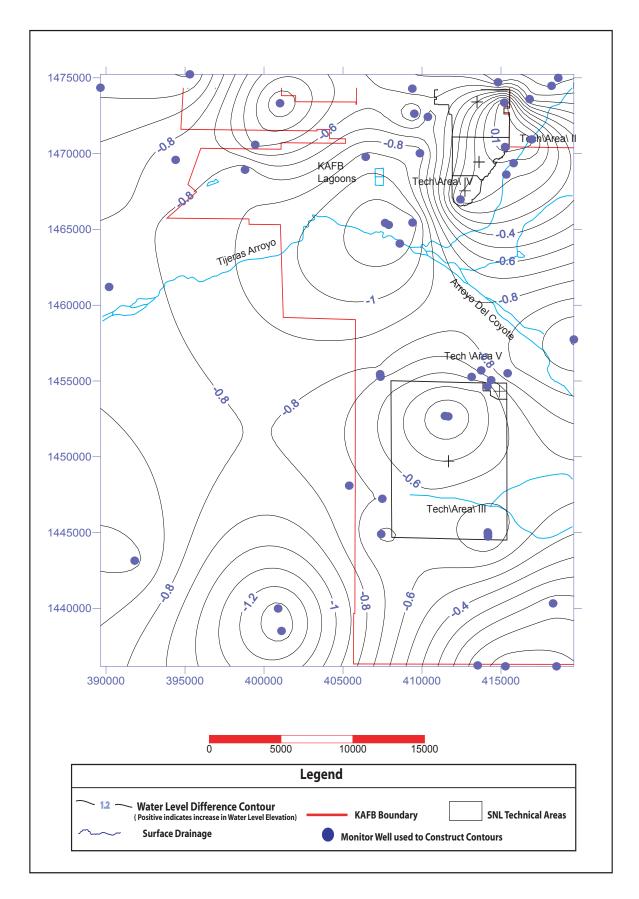


FIGURE 5-2 Annual Regional Groundwater Elevation Difference For SNL/KAFB, FY05-FY06

The elevation data to the first water of the PGWS are contoured on Figure 5-3. The contours indicate a gradient in the PGWS to the east-southeast. Recent correlation of lithologic information obtained from boreholes drilled during monitor well installations has demonstrated a layer of fine sediments that dips to the southeast (Van Hart 2001) and may serve as the perching horizon. No waster is produced from the PGWS. Recharge and drainage to the east drive the dynamics of the system. Figure 5-4 illustrates the changing water level elevations in the PGWS. In general, the depth to water is increasing in the northwestern section and decreasing toward the eastern portion. The increasing depth to water in the west is dominated by rapidly dropping water levels in the WY0-4 monitor well located west of TA-II. Water levels in the well have dropped 2.35 ft over the previous year. Water levels in the wells in the eastern half of the area have increased in variable amounts of the past year. The concentric contours in the eastern part of the figure are associated with the relatively stable water levels in monitor wells KAFB-0313 and TJA-5. Water level elevations in the extreme eastern portion of the PGWS are difficult to distinguish from regional water table elevations in this area. The merging of the SGWS into the regional aquifer may explain the increasing water level elevations in this area. The decline of water level elevations in the west is the result of the closure of a major recharge source, the KAFB Lagoons in 1987. Two additional, major sources of recharge to the PGWS are Tijeras Arroyo and turf irrigation at the KAFB Golf Course. Other potential sources of recharge to the PGWS are landscape, leaking water distribution and sewage collection lines. The general pattern that may be inferred from the evaluation of water level declines indicates a general draining of the PGWS toward the east coupled with a decrease of recharge in the west. A more detailed discussion of the PGWS can be found in the Corrective Measures Evaluation Report for Tijeras Arroyo Groundwater (SNL 2005b).

#### 5.3 Monitor Well Hydrographs

This section discusses recent trends in water levels in the vicinity of SNL/NM. Regional water level elevation changes over the current FY are discussed in Section 5.2.2 and illustrated in Figure 5-2. Changes in water level elevations in the perched GWS over the past year are discussed in Section 5.2.3 and illustrated in Figure 5-4. Hydrographs are graphical plots of water level changes over time. Data from quarterly and monthly water level measurements are used to construct the hydrographs in Appendix G. These hydrographs illustrate water level changes over the time period from October 2003 to October 2006. The figures depicting the hydrographs are ordered into groups representing the regional aquifer and the perched GWS on and in the vicinity of SNL/NM and KAFB:

- Regional GWS West of KAFB (COA Yale LF, Mesa del Sol, Montessa Park, McCormick Ranch)
- Regional GWS Northwest KAFB (LF-001, LF-002, FT-13)
- Regional GWS Northeast KAFB (TA-I, TA-II, Tijeras Arroyo, LF-08, COA Eubank LF)
- Shallow GWS (TA-1, TA-II, Tijeras Arroyo, LF-08)
- Regional GWS TA-III (West TA-III, MWL, CWL)
- Regional GWS TA-V
- Regional GWS South KAFB (South Fence Road, )
- KAFB East (East of Tijeras Fault Complex, Coyote Test Field)
- Burn Site Groundwater Area

Well hydrographs are presented in Appendix G, Figures G-6 through G-31. (Data for wells that provide redundant trend information are not plotted.) Each figure contains representative hydrographs for monitor wells located in the same general area and demonstrate similar overall water level elevations and trends. One or more representative hydrographs were selected in each group to demonstrate the mean behavior of groundwater levels in the area. A trend line (dashed) was constructed for the representative hydrographs using a linear regression of data for the recent 36-month period. The trend lines are superimposed on each

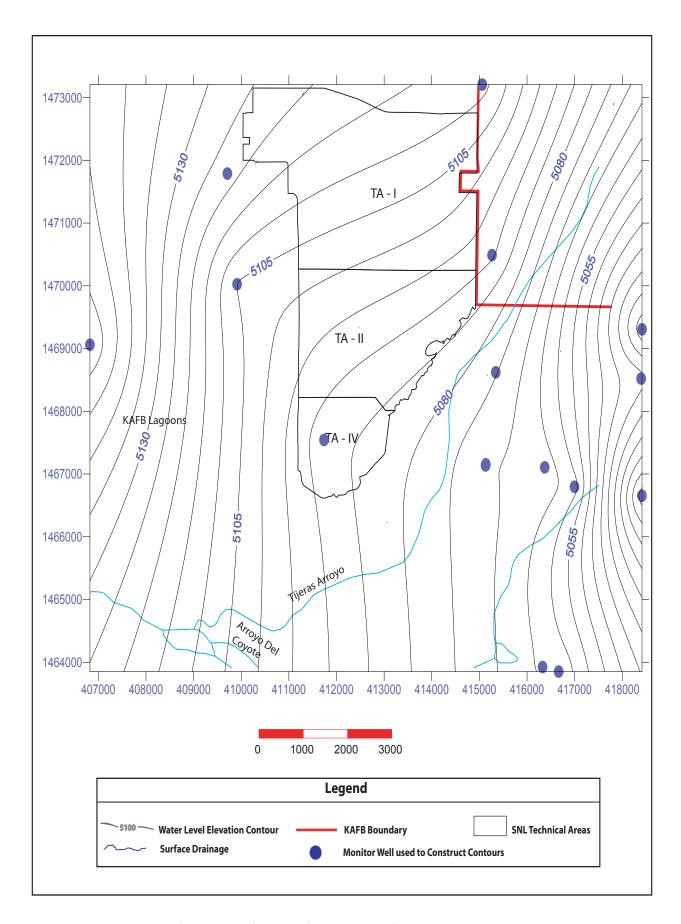


FIGURE 5-3 Shallow Groundwater System Water Elevation Map

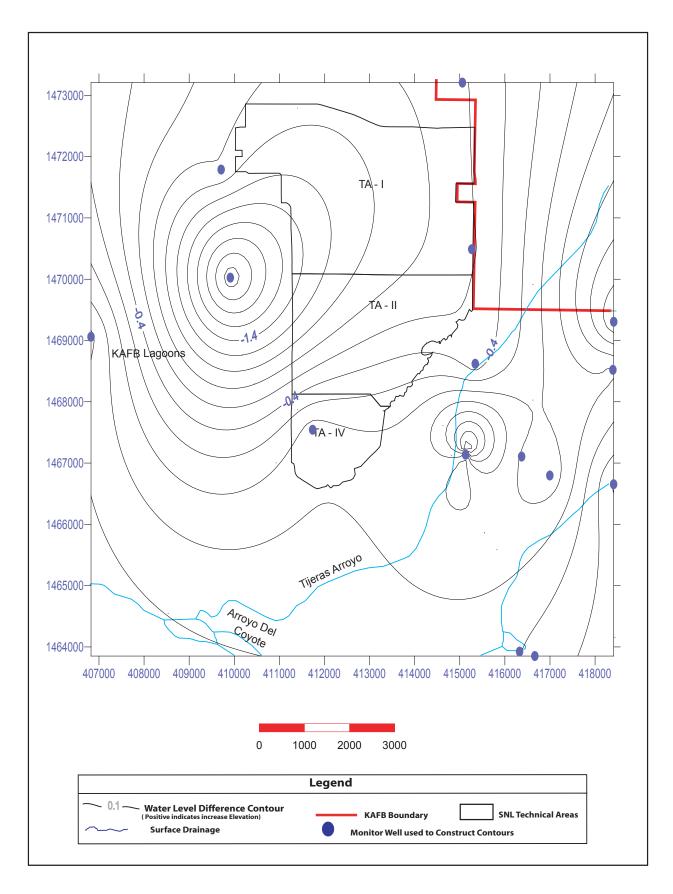


FIGURE 5-4 Shallow Groundwater System Elevation Changes, FY05 - FY06

representative hydrograph and are defined by the equation of slope y = ax + y intercept, where the coefficient of x is the slope of the line and represents water level changes in ft/month. The slope value multiplied by 12 is the annual change in ft/yr. A non-linear curve provided a more appropriate and better fit to water elevation data for some of the wells east of the fault complex. The hydrograph trend lines generally exhibit relatively good fit to the linear models as demonstrated by R2 coefficient values near one. R2 values near zero indicate a poor linear model representation. Most well hydrographs plot as a straight line. On some hydrographs oscillations are prominent. These oscillations correlate with seasonal changes in the rate of groundwater pumping at the supply wells. The more pronounced these oscillations, the closer the monitor well location is to the water supply wells. One additional source of oscillations in hydrographs is delayed recovery from purging the well prior to sampling. This phenomenon is most prominently illustrated in the hydrograph for monitor well SFR-4T in Figure G-27. The declining water table has resulted in the water levels in some wells dropping below the bottom of the screened interval. This renders the wells useless for the measurement of water levels and for the collection of groundwater samples.

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### APPENDIX A

### SNL/NM Groundwater Protection Program Groundwater Surveillance Task

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Table GWPP A-1
Summary of Detected Volatile Organic Compounds
Groundwater Protection Program Groundwater Surveillance Task

# Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (µg/L)	MDL <sup>b</sup> (µg/L)	PQL° (µg/L)	MCL / MAC <sup>d</sup> (µg/L)	MAC <sup>d</sup> L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
EOD Hill	Acetone	10.4	1.25	5.0	NE	NE		10.4UJ, B1	075759-001	SW846 8260
13-Mar-06	Methylene Chloride	2.62	2.0	5.0	5	100	В, Ј	5.0U, B	075759-001	SW846 8260
Greystone-MW2 24-Feb-06	Carbon Disulfide	3.96	1.25	5.0	ЫN	NE	٦	5.0U, B1	075740-001	SW846 8260
MRN-2 07-Mar-06	Carbon Disulfide	3.26	1.25	5.0	Ŋ	Ŋ	٦	5.0U, B1, B2	075754-001	SW846 8260
MRN-2 (Duplicate) 07-Mar-06	Carbon Disulfide	2.01	1.25	5.0	뮝	Ŋ	٦	5.0U, B1, B2	075755-001	SW846 8260
MRN-3D 08-Mar-06	Carbon Disulfide	1.33	1.25	5.0	NE	NE	٦	5.0U, B1	075757-001	SW846 8260
NWTA3-MW2 21-Feb-06	Carbon Disulfide	3.16	1.25	5.0	NE	NE	٦		075734-001	SW846 8260
NWTA3-MW3D 22-Feb-06	Carbon Disulfide	1.95	1.25	5.0	NE	NE	٦		075736-001	SW846 8260
PL-2 03-Mar-06	Carbon Disulfide	15.2	1.25	5.0	NE	NE		15.2U, B1	075748-001	SW846 8260
PL-3 06-Mar-06	Carbon Disulfide	1.89	1.25	5.0	빌	Ш И	٦	5.0U, B1	075750-001	SW846 8260
TRE-1 15-Feb-06	Chloroform	0.887	0.25	1.0	NE	100	7		075725-001	SW846 8260

APPENDICES A-3

Table GWPP A-2
Method Detection Limits for Volatile Organic Compounds
Groundwater Protection Program Groundwater Surveillance Task

# Fiscal Year 2006

Analyte	Method Detection Limit (1971)	Analytical Methods
	(I,63)I	
1,1,1-Trichloroethane	0.3	SW846 8260
1,1,2,2-Tetrachloroethane	0.25	SW846 8260
1,1,2-Trichloroethane	0.25	SW846 8260
1,1-Dichloroethane	0.3	SW846 8260
1,1-Dichloroethene	0.3	SW846 8260
1,2,4-Trichlorobenzene	0.3	SW846 8260
1,2-Dichlorobenzene	0.25	SW846 8260
1,2-Dichloroethane	0.25	SW846 8260
1,2-Dichloropropane	0.25	SW846 8260
1,4-Dichlorobenzene	0.25	SW846 8260
2-Butanone	1.25	SW846 8260
2-Hexanone	1.25	SW846 8260
4-methyl-, 2-Pentanone	1.25	SW846 8260
Acetone	1.25	SW846 8260
Benzene	0.3	SW846 8260
Bromodichloromethane	0.25	SW846 8260
Bromoform	0.25	SW846 8260
Bromomethane	0.5	SW846 8260
Carbon disulfide	1.25	SW846 8260
Carbon tetrachloride	0.25	SW846 8260
Chlorobenzene	0.25	SW846 8260
Chloroethane	0.5	SW846 8260
Chloroform	0.25	SW846 8260
Chloromethane	0.5	SW846 8260
Dibromochloromethane	0.25	SW846 8260
Ethyl benzene	0.25	SW846 8260
Methylene chloride	2	SW846 8260
Styrene	0.25	SW846 8260
Tetrachloroethene	0.25	SW846 8260
Toluene	0.25	SW846 8260
Trichloroethene	0.25	SW846 8260
Vinyl acetate	1.5	SW846 8260
Vinyl chloride	0.5	SW846 8260
Xylene	0.25	SW846 8260
cis-1,2-Dichloroethene	0.3	SW846 8260
cis-1,3-Dichloropropene	0.25	SW846 8260
trans-1,2-Dichloroethene	0.3	SW846 8260
trans-1,3-Dichloropropene	0.25	SW846 8260

APPENDICES A-5

Table GWPP A-3
Summary of Perchlorate Results
Groundwater Protection Program Groundwater Surveillance Task

# Fiscal Year 2006

13-Mar-06         1.26         0.200         0.600         NE         NE         P2         075759-020           13-Mar-06         1.08         0.250         1.0         NE         NE         P2         075759-020           09-Dec-05         ND         0.004         0.012         NE         N         075754-020           07-Mar-06         ND         0.004         0.012         NE         N         075754-020           07-Mar-06         ND         0.004         0.012         NE         N         075754-020           07-Mar-06         ND         0.004         0.012         NE         N         075754-020           17-Sep-06         ND         0.004         0.012         NE         N         075754-020           08-Mar-06         ND         0.004         0.012         NE         N         07575-020           12-Sep-06         ND         0.004         0.012         NE         N         0         07575-020           25-Sep-06         ND         0.004         0.012         NE         N         0         07574-020           27-Feb-06         ND         0.004         0.012         NE         N         0         075	Well ID	Sample Date	Perchlorate Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL / MAC <sup>d</sup> (mg/L)	MAC <sup>d</sup>	Laboratory Validation Qualifier Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
13-Mar-06         1.08         0.260         1.0         NE         NE         P2         075759-020           09-Dec-05         ND         0.004         0.012         NE         N         075754-020           06-Jun-06         ND         0.004         0.012         NE         N         075754-020           cate)         07-Mar-06         ND         0.004         0.012         NE         N         077554-020           cate)         07-Mar-06         ND         0.004         0.012         NE         N         078671-020           cate)         07-Mar-06         ND         0.004         0.012         NE         N         078671-020           cate)         07-Mar-06         ND         0.004         0.012         NE         N         078671-020           08-Jun-06         ND         0.004         0.012         NE         N         078672-020           08-Jun-06         ND         0.004         0.012         NE         N         078672-020           08-Jun-06         ND         0.004         0.012         NE         N         0         078672-020           10-Sep-06         ND         0.004         0.012         NE		13-Mar-06	1.26	0.200	0.600	NE	뮏			075759-020	EPA 314.0
OF-Dec-Of5         ND         0.004         0.012         NE         NE         U           OF-Mar-Of6         ND         0.004         0.012         NE         NE         U           Cate)         ND         0.004         0.012         NE         NE         U           Cate)         07-Mar-Of6         ND         0.004         0.012         NE         NE         U           Cate)         07-Mar-Of6         ND         0.004         0.012         NE         NE         U         NE           08-Jun-Of6         ND         0.004         0.012         NE         NE         U         NE           08-Jun-Of6         ND         0.004         0.012         NE         NE         U         NE           14-Dec-Of5         ND         0.004         0.012         NE         NE         U         NE           14-Dec-Of5         ND         0.004         0.012         NE         NE         U         NE           14-Dec-Of5         ND         0.004         0.012         NE         NE         U         NE           12-Jun-Of6         ND         0.004         0.012         NE         NE         U	בסח חוור	13-Mar-06	1.08	0.250	1.0	N.	岁		P2	075759-020	EPA 6850 M
cate)         O7-Mar-06         ND         0.004         0.012         NE         NE         U         NE           cate)         D6-Jun-06         ND         0.004         0.012         NE         NE         U         NE           cate)         O7-Mar-06         ND         0.004         0.012         NE         NE         U         NE           data)         07-Mar-06         ND         0.004         0.012         NE         NE         U         NE         NE <td></td> <td>09-Dec-05</td> <td>QN</td> <td>0.004</td> <td>0.012</td> <td>N.</td> <td>빙</td> <td>n</td> <td></td> <td>073547-020</td> <td>EPA 314.0</td>		09-Dec-05	QN	0.004	0.012	N.	빙	n		073547-020	EPA 314.0
cate)         OG-Jun-06         ND         0.004         0.012         NE         NE         U           cate)         07-Mar-06         ND         0.004         0.012         NE         NE         U           12-Dec-05         ND         0.004         0.012         NE         NE         U         NE           08-Jun-06         ND         0.004         0.012         NE         NE         U         NE           08-Jun-06         ND         0.004         0.012         NE         NE         U         NE           1dcate)         25-Sep-06         ND         0.004         0.012         NE         NE         U         NE           1dcate)         ND         0.004         0.012 <td< td=""><td>C NOW</td><td>07-Mar-06</td><td>ND</td><td>0.004</td><td>0.012</td><td>NE</td><td>N</td><td>n</td><td></td><td>075754-020</td><td>EPA 314.0</td></td<>	C NOW	07-Mar-06	ND	0.004	0.012	NE	N	n		075754-020	EPA 314.0
cate)         07-Mar-06         ND         0.004         0.012         NE         NE         U           12-Dec-05         ND         0.004         0.012         NE         NE         U         NE           12-Dec-05         ND         0.004         0.012         NE         NE         U         NE           08-Jun-06         ND         0.004         0.012         NE         NE         U         NE           14-Dec-05         ND         0.004         0.012         NE         NE         U         NE           14-Dec-05         ND         0.004         0.012         NE         NE         U         NE           25-Sep-06         ND         0.004         0.012         NE         NE         U         NE           14-Dec-05         ND         0.004         0.012         NE         NE         U         NE           05-Jun-06         ND         0.004         0.012         NE         NE         U         NE           12-Jun-06         ND         0.004         0.012         NE         NE         U         NE           12-Jun-06         ND         0.004         0.012         NE         <	7-11/11/1	90-Jun-90	QN	0.004	0.012	NE	빙	n		078671-020	EPA 314.0
cate)         07-Mar-06         ND         0.004         0.012         NE         NE         U           12-Dec-05         ND         0.004         0.012         NE         NE         U         ND           08-Mar-06         ND         0.004         0.012         NE         NE         U         ND           Nos-Jun-06         ND         0.004         0.012         NE         NE         U         ND           Nicate)         25-Sep-06         ND         0.004         0.012         NE         NE         U         ND           21-Feb-06         ND         0.004         0.012         NE         NE         U         ND           21-Feb-06         ND         0.004         0.012         NE         NE         U         ND           05-Jun-06         ND         0.004         0.012         NE         NE         U         ND           12-Jun-06         ND         0.004         0.012         NE         NE         U         ND           12-Jun-06         ND         0.004         0.012         NE         NE         U         ND           12-Jun-06         ND         0.004         0.012		21-Sep-06	ND	0.004	0.012	NE	NE	n		081627-020	EPA 314.0
12-Dec-05   ND   0.004   0.012   NE   NE   NE   NE   NE   NE   NE   N	MRN-2 (Duplicate)	07-Mar-06	QN	0.004	0.012	NE	NE	n		075755-020	EPA 314.0
OB-Mar-06         ND         0.004         0.012         NE         NE         U         NE           OB-Jun-06         ND         0.004         0.012         NE         NE         U         NE           Jicate)         25-Sep-06         ND         0.004         0.012         NE         NE         U         NE           J1-Dec-05         ND         0.004         0.012         NE         NE         U         NE		12-Dec-05	QN	0.004	0.012	NE	N	n		073549-020	EPA 314.0
Mos-Jun-O6         ND         0.004         0.012         NE         NE         U           25-Sep-06         ND         0.004         0.012         NE         NE         U           14-Dec-05         ND         0.004         0.012         NE         NE         U           21-Feb-06         ND         0.004         0.012         NE         NE         U           05-Jun-06         ND         0.004         0.012         NE         NE         U           12-Jun-06         ND         0.004         0.012         NE         NE         U           12-Jun-06         ND         0.004         0.012         NE         NE         U           22-Sep-06         ND         0.004         0.012         NE         NE         U           (Dublicate)         12-Jun-06         ND         0.004         0.012         NE         NE         U		08-Mar-06	ND	0.004	0.012	NE	NE	n		075757-020	EPA 314.0
125-Sep-06   ND   0.004   0.012   NE   NE   U   NE   NE   NE   NE   NE	חס-אוצוואו	90-Jun-90	QN	0.004	0.012	NE	NE	n		078672-020	EPA 314.0
licate)         25-Sep-06         ND         0.004         0.012         NE         NE         U           14-Dec-05         ND         0.004         0.012         NE         NE         U         NE           05-Jun-06         ND         0.004         0.012         NE         NE         U         NE           12-Jun-06         ND         0.004         0.012         NE         NE         U         NE           22-Sep-06         ND         0.004         0.012         NE         NE         U         NE           (Dublicate)         12-Jun-06         ND         0.004         0.012         NE         NE         U		25-Sep-06	ND	0.004	0.012	NE	NE	n		081629-020	EPA 314.0
14-Dec-05         ND         0.004         0.012         NE         NE         U           21-Feb-06         ND         0.004         0.012         NE         NE         U           05-Jun-06         ND         0.004         0.012         NE         NE         U           12-Jun-06         ND         0.004         0.012         NE         NE         U           (Dublicate)         12-Jun-06         ND         0.004         0.012         NE         NE         U           (Dublicate)         12-Jun-06         ND         0.004         0.012         NE         NE         U	MRN-3D (Duplicate)	25-Sep-06	ND	0.004	0.012	NE	NE	n		081630-020	EPA 314.0
21-Feb-06         ND         0.004         0.012         NE         NE         U           05-Jun-06         ND         0.004         0.012         NE         NE         U           12-Jun-06         ND         0.004         0.012         NE         NE         U           (Dublicate)         12-Jun-06         ND         0.004         0.012         NE         NE         U           (Dublicate)         12-Jun-06         ND         0.004         0.012         NE         NE         U		14-Dec-05	ND	0.004	0.012	NE	N	n		073546-020	EPA 314.0
O5-Jun-06         ND         0.004         0.012         NE         NE         U           12-Jun-06         ND         0.004         0.012         NE         NE         U         NE           22-Sep-06         ND         0.004         0.012         NE         NE         U         NE           (Duplicate)         12-Jun-06         ND         0.004         0.012         NE         NE         U	NWTA3-MW2	21-Feb-06	ND	0.004	0.012	NE	NE	n		075734-020	EPA 314.0
O1-Mar-06         ND         0.004         0.012         NE         NE         U           12-Jun-06         ND         0.004         0.012         NE         NE         U         NE           (Dublicate)         12-Jun-06         ND         0.004         0.012         NE         NE         U		05-Jun-06	ND	0.004	0.012	NE	N	n		078670-020	EPA 314.0
12-Jun-06         ND         0.004         0.012         NE         NE         U           22-Sep-06         ND         0.004         0.012         NE         NE         U           (Duplicate)         12-Jun-06         ND         0.004         0.012         NE         NE         U		01-Mar-06	ND	0.004	0.012	NE	NE	n		075746-020	EPA 314.0
22-Sep-06 ND 0.004 0.012 NE NE U 12-Jun-06 ND 0.004 0.012 NE NE U	SWTA3-MW4	12-Jun-06	ND	0.004	0.012	NE	NE	n		078674-020	EPA 314.0
12-Jun-06 ND 0.004 0.012 NE NE U		22-Sep-06	ND	0.004	0.012	NE	NE	n		081631-020	EPA 314.0
	SWTA3-MW4 (Duplicate)	12-Jun-06	QN	0.004	0.012	NE	빙	D		078675-020	EPA 314.0

APPENDICES A-7

Summary of Alkalinity, Anions, Nitrate plus Nitrate, Total Organic Halogens, Total Phenols, and Total Cyanide Results Groundwater Protection Program Groundwater Surveillance Task Table GWPP A-4

Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL / MAC <sup>d</sup> (mg/L)	A C	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
	Alkalinity as CACO3	1,040	1.45	2.0	N N	뮏			075732-016	EPA 310.1
	Bromide	1.90	0.041	0.2	빙	빙			075732-016	SW846 9056
	Chloride	473	5.3	20	NE	NE	В		075732-016	SW846 9056
	Fluoride	1.64	0.03	0.1	4.0	1.6	В		075732-016	SW846 9056
Coyote Springs	Nitrate plus nitrite as N	ND	0.017	0.05	10	10	n		075732-018	EPA 353.1
00-00-	Sulfate	123	5.7	40	NE	NE	В		075732-016	SW846 9056
	Total Organic Halogens	0.0234	0.003	0.01	NE	NE		В3, Ј	075732-003	SW846 9020
	Total Phenols	ND	0.002	0.01	NE	NE	Π	B3, UJ	075732-026	SW846 9066
	Total Cyanide	QN	0.0025	0.005	0.2	0.2	⊃		075732-027	SW846 9012
	Alkalinity as CACO3	168	1.45	2.0	빙	빙			075723-022	EPA 310.1
	Bromide	0.134	0.041	0.2	岁	빙	7		075723-016	SW846 9056
	Chloride	12.1	0.053	0.2	빙	빙	В		075723-016	SW846 9056
- - - -	Fluoride	0.406	0.03	0.1	4.0	1.6	В		075723-016	SW846 9056
Eubank-1	Nitrate plus nitrite as N	1.70	0.085	0.25	10	10			075723-018	EPA 353.1
00-00-1-1-	Sulfate	71.4	0.57	4.0	빙	빙	В		075723-016	SW846 9056
	Total Organic Halogens	QN	0.003	0.01	빙	빙	)		075723-003	SW846 9020
	Total Phenols	QN	0.001	0.005	빙	빙	⊃		075723-026	SW846 9066
	Total Cyanide	QN	0.0025	0.005	0.2	0.2	)	B3, UJ	075723-027	SW846 9012
	Alkalinity as CACO3	1,390	1.45	2.0	NE	N.			075759-016	EPA 310.1
	Bromide	1.56	0.041	0.2	NE	R			075759-016	SW846 9056
	Chloride	337	2.65	10	Ŋ	빙			075759-016	SW846 9056
:: :- ::	Fluoride	1.48	0.03	0.1	4.0	1.6			075759-016	SW846 9056
EOD HIII	Nitrate plus nitrite as N	QN	0.085	0.25	10	10	D	A2, R	075759-018	EPA 353.1
	Sulfate	115	0.57	4.0	NE	NE			075759-016	SW846 9056
	Total Organic Halogens	0.0727	0.003	0.01	NE	NE			075759-003	SW846 9020
	Total Phenols	ND	0.001	0.005	NE	NE	B, U	B3, UJ	075759-026	SW846 9066
	Total Cyanide	0.00928	0.0025	0.005	0.2	0.2			075759-027	SW846 9012
	Alkalinity as CACO3	456	1.45	2.00	NE	NE			075740-016	EPA 310.1
	Bromide	0.523	0.041	0.2	NE	R			075740-016	SW846 9056
	Chloride	110	0.053	0.2	NE NE	N.	В		075740-016	SW846 9056
	Fluoride	0.845	0.03	0.1	4.0	1.6	В		075740-016	SW846 9056
Greystorie-ivivz	Nitrate plus nitrite as N	4.93	0.085	0.25	10	10			075740-018	EPA 353.1
	Sulfate	47.3	0.57	4.0	NE	NE	В		075740-016	SW846 9056
	Total Organic Halogens	0.00478	0.003	0.01	NE	NE	ſ	B2, B3, J	075740-003	SW846 9020
	Total Phenols	ND	0.001	0.005	NE	NE	U	B3, P1, UJ	075740-026	SW846 9066
	Total Cyanide	QN	0.0025	0.005	0.2	0.2	n		075740-027	SW846 9012
Refer to footnotes on page 43.	on page 43.									

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Summary of Alkalinity, Anions, Nitrate plus Nitrate, Total Organic Halogens, Total Phenols, and Total Cyanide Results Groundwater Protection Program Groundwater Surveillance Task Table GWPP A-4

Fiscal Year 2006

	4.1-1.4	Resulta	MDL	PQL°	MCL / MAC	IAC⁴	Laboratory	Validation	Sample	Analytical
Well ID	Anaiyte	(mg/L)	(mg/L)	(mg/L)	(mg/L)	<u>.</u>	Qualifier	Qualifier	No.	Method <sup>9</sup>
	Alkalinity as CACO3	149	1.45	2.0	IJZ	빙			075754-016	EPA 310.1
	Bromide	0.196	0.041	0.2	NE	NE	Ŋ		075754-016	SW846 9056
0.14	Chloride	14.9	0.053	0.2	NE	NE			075754-016	SW846 9056
IVIRIV-2 07-Mar-06	Fluoride	0.630	0.03	0.1	4.0	1.6			075754-016	SW846 9056
	Nitrate plus nitrite as N	4.73	0.017	0.05	10	10			075754-018	EPA 353.1
	Sulfate	54.7	0.285	2.0	NE	N			075754-016	SW846 9056
	Total Organic Halogens	0.00426	0.003	0.01	NE	NE	Ŋ	B2, B3, J	075754-003	SW846 9020
	Total Phenols	0.00481	0.001	0.005	NE	NE	Ŋ	B2, B3, J	075754-026	SW846 9066
	Total Cyanide	ND	0.0025	0.005	0.2	0.2	B, U		075754-027	SW846 9012
	Alkalinity as CACO3	151	1.45	2.0	NE	NE			075755-016	EPA 310.1
	Bromide	0.209	0.041	0.2	NE	NE			075755-016	SW846 9056
MRN-2	Chloride	15.2	0.053	0.2	NE	NE			075755-016	SW846 9056
Duplicate	Fluoride	0.632	0.03	0.1	4.0	1.6			075755-016	SW846 9056
07-Mar-06	Nitrate plus nitrite as N	4.77	0.017	0.05	10	10			075755-018	EPA 353.1
	Sulfate	53.5	0.285	2.0	Ŋ	빙			075755-016	SW846 9056
	Total Organic Halogens	0.00436	0.003	0.01	NE	빙	ſ	B2, B3, J	075755-003	SW846 9020
	Total Phenols	0.00158	0.001	0.005	NE	NE	ſ	B2, B3, J	075755-026	SW846 9066
	Total Cyanide	ND	0.0025	0.005	0.2	0.2	B, U		075755-027	SW846 9012
	Alkalinity as CACO3	159	1.45	2.0	NE	NE			075757-016	EPA 310.1
	Bromide	0.181	0.041	0.2	NE	Ŋ	ſ		075757-016	SW846 9056
	Chloride	19.4	0.053	0.2	NE	NE	В		075757-016	SW846 9056
CC NOW	Fluoride	0.579	0.03	0.1	4.0	1.6	В		075757-016	SW846 9056
NIKN-3D 08-Mar-06	Nitrate plus nitrite as N	0.659	0.017	0.05	10	10			075757-018	EPA 353.1
00-1818	Sulfate	65.8	0.57	4.0	NE	NE	В		075757-016	SW846 9056
	Total Organic Halogens	0.00522	0.003	0.01	NE	NE	ſ	В3, Ј	075757-003	SW846 9020
	Total Phenols	ND	0.001	0.005	NE	NE	n	B3, UJ	075757-026	SW846 9066
	Total Cyanide	ND	0.0025	0.005	0.2	0.2	U		075757-027	SW846 9012
	Alkalinity as CACO3	155	1.45	2.0	NE	NE			075734-016	EPA 310.1
	Bromide	0.175	0.041	0.2	NE	NE	ſ		075734-016	SW846 9056
	Chloride	15.4	0.053	0.2	NE	묑	В		075734-016	SW846 9056
CAMA	Fluoride	0.437	0.03	0.1	4.0	1.6	В		075734-016	SW846 9056
INVVIAS-IVIVVZ 21-Feh-06	Nitrate plus nitrite as N	5.66	0.17	0.5	10	10			075734-018	EPA 353.1
9	Sulfate	46.4	0.57	4.0	N N	빙	В		075734-016	SW846 9056
	Total Organic Halogens	0.0165	0.003	0.01	IJ N	묑		В3, Ј	075734-003	SW846 9020
	Total Phenols	ND	0.001	0.005	NE	Ŋ	D	B3, UJ	075734-026	SW846 9066
Dafar to foothotes on none 13	Total Cyanide	ND	0.0025	0.005	0.2	0.2	D		075734-027	SW846 9012

Summary of Alkalinity, Anions, Nitrate plus Nitrate, Total Organic Halogens, Total Phenols, and Total Cyanide Results Groundwater Protection Program Groundwater Surveillance Task Table GWPP A-4

Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL/	MCL / MAC <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
	Alkalinity as CACO3	140	1.45	2.0	NE	N N			075736-016	EPA 310.1
	Bromide	QN	0.041	0.2	NE	NE	Λ		075736-016	SW846 9056
	Chloride	11.7	0.053	0.2	Ŋ	IJ	В		075736-016	SW846 9056
COMMA CATIVATA	Fluoride	0.765	0.03	0.1	4.0	1.6	В		075736-016	SW846 9056
NW IA3-MW3D	Nitrate plus nitrite as N	0.747	0.017	0.05	10	10			075736-018	EPA 353.1
27-1-20-00	Sulfate	45.4	0.57	4.0	NE	NE	В		075736-016	SW846 9056
	Total Organic Halogens	0.00317	0.003	0.01	NE	NE	ſ	ВЗ, Ј	075736-003	SW846 9020
	Total Phenols	QN	0.00107	0.00536	NE	NE	n	B3, UJ	075736-026	SW846 9066
	Total Cyanide	QN	0.0025	0.005	0.2	0.2	n		075736-027	SW846 9012
	Alkalinity as CACO3	138	1.45	2.0	Ŋ	Ŋ			075748-016	EPA 310.1
	Bromide	0.185	0.041	0.2	Ŋ	IJ	٦		075748-016	SW846 9056
	Chloride	13.1	0.053	0.2	Ŋ	IJ			075748-016	SW846 9056
ā	Fluoride	0.556	0.03	0.1	4.0	1.6			075748-016	SW846 9056
PL-2	Nitrate plus nitrite as N	1.86	0.017	0.05	10	10			075748-018	EPA 353.1
03-IVIAI -00	Sulfate	60.1	0.285	2.0	Ŋ	IJ			075748-016	SW846 9056
	Total Organic Halogens	0.0036	0.003	0.01	Ŋ	IJ	7	В3, Ј	075748-003	SW846 9020
	Total Phenols	QN	0.00114	0.00569	NE	NE	n	B3, UJ	075748-026	SW846 9066
	Total Cyanide	ND	0.0025	0.005	0.2	0.2	B, U		075748-027	SW846 9012
	Alkalinity as CACO3	152	1.45	2.0	NE	NE			075750-016	EPA 310.1
	Bromide	0.216	0.041	0.2	NE	NE			075750-016	SW846 9056
	Chloride	17.0	0.053	0.2	NE	NE			075750-016	SW846 9056
·	Fluoride	0.363	0.03	0.1	4.0	1.6			075750-016	SW846 9056
PL-3 06-Mar-06	Nitrate plus nitrite as N	5.05	0.17	0.5	10	10			075750-018	EPA 353.1
00-18181	Sulfate	6.09	0.285	2.0	NE	NE			075750-016	SW846 9056
	Total Organic Halogens	0.00316	0.003	0.01	NE	NE	J	ВЗ, Ј	075750-003	SW846 9020
	Total Phenols	0.00172	0.001	0.005	NE	NE	ſ	ВЗ, Ј	075750-026	SW846 9066
	Total Cyanide	ND	0.0025	0.005	0.2	0.2	B, U		075750-027	SW846 9012
	Alkalinity as CACO3	385	1.45	2.0	NE	NE			075730-016	EPA 310.1
	Bromide	0.595	0.041	0.2	NE	NE			075730-016	SW846 9056
	Chloride	129	0.53	2.0	NE	NE	В		075730-016	SW846 9056
00	Fluoride	1.61	0.03	0.1	4.0	1.6	В		075730-016	SW846 9056
3FR-23 23-Eah-06	Nitrate plus nitrite as N	0.442	0.017	0.05	10	10			075730-018	EPA 353.1
	Sulfate	68.2	0.57	4.0	Ŋ	ЫN	В		075730-016	SW846 9056
	Total Organic Halogens	0.0146	0.003	0.01	NE	NE		В3, Ј	075730-003	SW846 9020
	Total Phenols	ND	0.001	0.005	NE	NE	D	B3, P1, UJ	075730-026	SW846 9066
	Total Cyanide	ND	0.0025	0.005	0.2	0.2	n		075730-027	SW846 9012
Kerer to roomotes on page 43	13.									

Summary of Alkalinity, Anions, Nitrate plus Nitrate, Total Organic Halogens, Total Phenols, and Total Cyanide Results Groundwater Protection Program Groundwater Surveillance Task Table GWPP A-4

Fiscal Year 2006

WellID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL / MAC <sup>d</sup> (mg/L)	MAC⁴ (L)		Validation Qualifier <sup>f</sup>	S	Analytical Method <sup>g</sup>
SFR-4T	Alkalinity as CACO3	401	1.45	2.0	빙	빙			075727-016	EPA 310.1
16-Feb-06	Bromide	4.89	0.041	0.2	NE	N N			075727-016	SW846 9056
	Chloride	206	5.3	20	NE	NE	В		075727-016	SW846 9056
	Fluoride	2.67	0.03	0.1	4.0	1.6	В		075727-016	SW846 9056
	Nitrate plus nitrite as N	0.165	0.017	0.05	10	10			075727-018	EPA 353.1
	Sulfate	1,770	5.7	40	NE	NE	В		075727-016	SW846 9056
	Total Organic Halogens	0.0203	0.003	0.01	NE	NE		В, Ј	075727-003	SW846 9020
	Total Phenols	0.0249	0.001	0.005	NE	NE			075727-026	SW846 9066
	Total Cyanide	QN	0.0025	0.005	0.2	0.2	n	B3, UJ	075727-027	SW846 9012
SFR-4T	Alkalinity as CACO3	102	1.45	2.0	NE.	N N			075728-016	EPA 310.1
Duplicate	Bromide	20.5	0.041	0.2	NE	NE			075728-016	SW846 9056
16-Feb-06	Chloride	190	5.3	20	빌	Ŋ	В		075728-016	SW846 9056
	Fluoride	2.66	0.03	0.1	4.0	1.6	В		075728-016	SW846 9056
	Nitrate plus nitrite as N	0.163	0.017	0.05	10	10			075728-018	EPA 353.1
	Sulfate	1,770	5.7	40	NE	NE	В		075728-016	SW846 9056
	Total Organic Halogens	0.0357	0.003	0.01	NE	NE		В, Ј	075728-003	SW846 9020
	Total Phenols	QN	0.002	0.01	NE	NE	N		075728-026	SW846 9066
	Total Cyanide	QN	0.0025	0.005	0.2	0.2	n	B3, UJ	075728-027	SW846 9012
SWTA3-MW2	Alkalinity as CACO3	160	1.45	2.0	NE	NE			075742-016	EPA 310.1
27-Feb-06	Bromide	0.137	0.041	0.2	NE	NE	ſ		075742-016	SW846 9056
	Chloride	13.8	0.053	0.2	NE	NE	В		075742-016	SW846 9056
	Fluoride	696.0	0.03	0.1	4.0	1.6	В		075742-016	SW846 9056
	Nitrate plus nitrite as N	1.0	0.017	0.05	10	10			075742-018	EPA 353.1
	Sulfate	53.6	0.57	4.0	NE	NE	В		075742-016	SW846 9056
	Total Organic Halogens	0.00325	0.003	0.01	NE	NE	ſ	ВЗ, Ј	075742-003	SW846 9020
	Total Phenols	ND	0.002	0.01	NE	NE	U	B3, P1, UJ	075742-026	SW846 9066
	Total Cyanide	ND	0.0025	0.005	0.2	0.2	Π		075742-027	SW846 9012
SWTA3-MW3	Alkalinity as CACO3	154	1.45	2.0	NE	NE			075744-016	EPA 310.1
28-Feb-06	Bromide	0.136	0.041	0.2	NE	NE	J		075744-016	SW846 9056
	Chloride	14.0	0.053	0.2	NE	NE	В		075744-016	SW846 9056
	Fluoride	1.26	0.03	0.1	4.0	1.6	В		075744-016	SW846 9056
	Nitrate plus nitrite as N	0.480	0.017	0.05	10	10			075744-018	EPA 353.1
	Sulfate	61.9	0.57	4.0	NE	NE	В		075744-016	SW846 9056
	Total Organic Halogens	QN	0.003	0.01	Ä	Ä	n		075744-003	SW846 9020
	Total Phenols	Q	0.001	0.005	Ŋ	Ŋ	О	B3, UJ	075744-026	SW846 9066
	Total Cyanide	QN	0.0025	0.005	0.2	0.2	Π		075744-027	SW846 9012
Refer to footnotes on page 43.										

Summary of Alkalinity, Anions, Nitrate plus Nitrate, Total Organic Halogens, Total Phenols, and Total Cyanide Results Groundwater Protection Program Groundwater Surveillance Task Table GWPP A-4 (Concluded)

Fiscal Year 2006

Well ID	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL / MAC <sup>d</sup> (mg/L)	IACd L)	Laboratory Qualifier*	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
SWTA3-MW4	Alkalinity as CACO3	171	1.45	2.0	빌	뷜			075746-016	EPA 310.1
01-Mar-06	Bromide	0.176	0.041	0.2	Ŋ	빌	ר		075746-016	SW846 9056
	Chloride	15.1	0.053	0.2	IJ.	뷜			075746-016	SW846 9056
	Fluoride	1.82	0.03	0.1	4.0	1.6			075746-016	SW846 9056
	Nitrate plus nitrite as N	0.735	0.017	0.05	10	10			075746-018	EPA 353.1
	Sulfate	54.8	0.114	0.8	IJ.	Ä			075746-016	SW846 9056
	Total Organic Halogens	0.0138	0.003	0.01	빙	Ä		В3, Ј	075746-003	SW846 9020
	Total Phenols	QN	0.00114	0.00569	N.	NE	ח	B3, UJ	075746-026	SW846 9066
	Total Cyanide	0.00357	0.0025	0.005	0.2	0.2	В, Ј	В, Ј	075746-027	SW846 9012
TRE-1	Alkalinity as CACO3	491	0.725	1.0	Ŋ	Ä			075725-022	EPA 310.1
15-Feb-06	Bromide	0.700	0.041	0.2	ШZ	Ä			075725-016	SW846 9056
	Chloride	133	1.06	4.0	NE NE	빙	В		075725-016	SW846 9056
	Fluoride	1.62	0.03	0.1	4.0	1.6	В		075725-016	SW846 9056
	Nitrate plus nitrite as N	1.67	0.085	0.25	10	10			075725-018	EPA 353.1
	Sulfate	98.7	1.14	8.0	IJ IJ	Ä	В		075725-016	SW846 9056
	Total Organic Halogens	0.0366	0.003	0.01	NE	NE		В, Ј	075725-003	SW846 9020
	Total Phenols	ND	0.001	0.005	NE	NE	n		075725-026	SW846 9066
	Total Cyanide	ND	0.0025	0.005	0.2	0.2	n	B3, UJ	075725-027	SW846 9012
Refer to footnotes on page 43.	e 43.									

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Table GWPP A-5
Summary of Dissolved (Filtered) Metal Results
Groundwater Protection Program Groundwater Surveillance Task

Well ID	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL / MACd (mg/L)	MAC⁴ /L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
	Aluminum	0.204	0.005	0.015	뿐	N N			075732-009	SW846 6020
	Antimony	QN	0.0005	0.002	900.0	빙	ח		075732-009	SW846 6020
	Arsenic	0.00497	0.0015	0.005	0.01	0.1	В, Ј	B, J	075732-009	SW846 6020
	Barium	0.0411	0.0025	0.01	2	_			075732-009	SW846 6020
	Beryllium	0.00805	0.0001	0.0005	0.004	빙			075732-009	SW846 6020
	Cadmium	0.00013	0.0001	0.001	0.005	0.01	٦		075732-009	SW846 6020
	Calcium	293	0.2	1.0	빙	빙			075732-009	SW846 6020
	Chromium	0.00101	0.001	0.003	0.1	0.05	В, Ј	B, J	075732-009	SW846 6020
	Cobalt	0.0104	0.0001	0.001	빙	빙			075732-009	SW846 6020
	Copper	0.00263	0.0002	0.001	빙	빙			075732-009	SW846 6020
	Iron	1.65	0.01	0.025	빙	빙		7	075732-009	SW846 6020
	Lead	QN	0.0005	0.002	빙	0.05	ס		075732-009	SW846 6020
Coyote Springs	Magnesium	68.4	0.05	0.15	빙	빙			075732-009	SW846 6020
20-Feb-06	Manganese	1.62	0.01	0.05	빙	빙			075732-009	SW846 6020
	Mercury	QV	0.00005	0.0002	0.002	0.002	ס		075732-009	SW846 7470
	Nickel	0.0309	0.0005	0.002	빙	빙			075732-009	SW846 6020
	Potassium	28.9	80.0	0.3	빙	빙			075732-009	SW846 6020
	Selenium	QN	0.0025	0.005	0.05	0.05	n		075732-009	SW846 6020
	Silver	QN	0.0002	0.001	빙	0.05	ס		075732-009	SW846 6020
	Sodium	456	8.0	2.5	빙	빙			075732-009	SW846 6020
	Thallium	0.0016	0.0004	0.001	0.002	뵘			075732-009	SW846 6020
	Uranium	0.00671	0.00005	0.0002	0.03	2			075732-009	SW846 6020
	Uranium-235	0.000049	0.00001	0.00007	0.03	2	ŋ		075732-009	SW846 6020
	Uranium-238	0.00666	0.00005	0.0002	0.03	2			075732-009	SW846 6020
	Vanadium	ND	0.002	0.03	NE	NE	B, U		075732-009	SW846 6020
	Zinc	0.047	0.002	0.01	NE	NE			075732-009	SW846 6020
Refer to footnotes on page 43.	e 43.									

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Aluminum         ND         0.005         0.015         NE         NE         NE           Antimony         ND         0.0005         0.006         ND         0.006         ND         0.006         ND	Well ID	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL / MAC <sup>d</sup> (mg/L)	IACd L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
Antimony         ND         0.0005         0.002         0.006         NE         U           Arsenic         ND         0.0015         0.005         0.01         0.1         B.U           Barium         0.0489         0.0005         0.002         2         1         B.U           Barium         0.0489         0.0005         0.002         2         1         B.U           Beryllium         ND         0.0001         0.0001         0.0001         0.001         0.0           Cadduium         ND         0.0001         0.0001         NB         NB         NB           Chromium         ND         0.0001         0.001         NB         NB         NB           Copper         0.000152         0.0001         0.001         NB         NB         NB           Coppet         0.0001452         0.0001         0.001         NB         NB         NB         NB           Coppet         0.00152         0.001         0.002         NB         NB         NB         NB           Magnesium         10.1         0.005         0.005         NB         NB         NB         NB           Mercury         ND		Aluminum	QN	0.005	0.015	묑	R	B, U		075723-009	SW846 6020
Arsenic         ND         0.0015         0.005         0.01         0.02         0.01         0.02         0.02         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.02         0.01         0.02         0.02         0.01         0.02         0.01         0.02         0.02         0.02         0.02         0.02		Antimony	ND	0.0005	0.002	900.0	NE	n		075723-009	SW846 6020
Bartum         0.0489         0.0005         0.002         2         1           Beryllium         ND         0.0001         0.0005         0.004         NE         U           Cadrium         ND         0.0001         0.001         0.005         0.01         U           Cadcium         69.7         0.02         0.10         NE         NE         U           Chromium         ND         0.0001         0.001         NE         NE         ND           Cobalt         0.000152         0.0001         0.001         NE         NE         N           Copper         0.00314         0.0002         0.001         NE         NE         N           Iron         ND         0.0005         0.001         NE         NE         N           Magnesium         10.1         0.0005         0.005         NE         N         N           Marcury         ND         0.0005         0.0005         0.005         NE         N           Marcury         ND         0.0005         0.0005         0.005         N         N           Nickel         ND         0.0005         0.0005         0.005         N         N		Arsenic	QN	0.0015	0.005	0.01	0.1	B, U		075723-009	SW846 6020
Beryllium         ND         0.0001         0.0005         0.004         NE         U           Cadmium         ND         0.0001         0.001         0.005         0.01         U           Cadmium         ND         0.0001         0.001         0.001         0.001         D           Calcium         69.7         0.02         0.10         NE         B         U           Chromium         ND         0.001         0.001         NE         NE         B         U           Cobalt         0.000152         0.0001         0.001         NE         NE         J         D         D           Cobalt         0.000152         0.0001         0.001         NE         NE         NE         D		Barium	0.0489	0.0005	0.002	2	-			075723-009	SW846 6020
Cadmium         ND         0.0001         0.001         0.005         0.01         NE         NB           Calcium         69.7         0.02         0.10         NB		Beryllium	QN	0.0001	0.0005	0.004	Ŋ	ס		075723-009	SW846 6020
Calcium         69.7         0.02         0.10         NE         NE         NE           Chromium         ND         0.001         0.003         0.1         0.05         B, U           Chromium         ND         0.0001         0.0001         0.0001         0.001         NE         B, U           Cobalt         0.00314         0.0002         0.001         NE         NE         NE         N           Lead         ND         0.0005         0.002         NE         NE         N         N           Lead         ND         0.0005         0.002         NE         NE         N         N           Magnesium         10.1         0.0005         0.002         NE         N         N         N           Marcury         ND         0.0005         0.0002         NE         N         N         N         N           Nickel         0.00328         0.0005         0.002         0.002         0.00         N		Cadmium	QN	0.0001	0.001	0.005	0.01	D		075723-009	SW846 6020
Chromium         ND         0.001         0.001         0.001         0.001         0.001         0.001         NE         B, U         Cobalt           Cobalt         0.000152         0.0001         0.001         0.001         0.001         NE         NE         J         N           Iron         0.0337         0.01         0.005         0.001         NE         NE         NE         NE         N           Iron         0.337         0.01         0.005         0.005         NE         NE         N		Calcium	69.7	0.02	0.10	Ŋ	NE	В		075723-009	SW846 6020
Cobalt         0.000152         0.0001         0.001         NE         NE         J           Copper         0.00314         0.0002         0.001         NE         NE         NE         NE           Iron         0.337         0.01         0.0025         NE         NE         NE         NE           Lead         ND         0.0005         0.0025         NE         NE         NE         NE           Marganesium         10.1         0.0005         0.005         NE         NE         NE         NE           Mercury         ND         0.0005         0.005         NE         NE         NE         NE           Nickel         0.00328         0.0005         0.002         0.002         U         NE         NE         NE         NE           Potassium         1.71         0.08         0.005         0.005         0.005         NE		Chromium	QN	0.001	0.003	0.1	0.05	B, U		075723-009	SW846 6020
Copper         0.00314         0.0002         0.001         NE         NE           Iron         0.337         0.01         0.025         NE         NE         NE           Lead         ND         0.005         0.005         0.005         0.005         U         NE           Manganese         ND         0.0005         0.005         NE         NE         NE         N           Mercury         ND         0.0005         0.0002         0.002         0.002         U         N           Nickel         0.00328         0.0005         0.002         NE         NE         N         N           Potassium         1.71         0.08         0.30         NE         NE         U         N           Selenium         ND         0.0025         0.005         0.05         U         N		Cobalt	0.000152	0.0001	0.001	뮏	빙	٦		075723-009	SW846 6020
Iron         0.337         0.01         0.025         NE         NE         NE           Lead         ND         0.0005         0.002         NE         0.05         U           Magnesium         10.1         0.005         0.005         NE         NE         NE           Manganese         ND         0.0005         0.0005         0.0002         0.002         U         NE           Mercury         ND         0.0005         0.0002         0.002         0.002         U         NE           Nickel         0.00328         0.0005         0.002         0.002         0.002         U         NE           Potassium         1.71         0.08         0.30         NE         NE         N           Selenium         ND         0.0025         0.005         0.05         U         N           Sodium         24.2         0.08         0.25         NE         N         U           Uranilium         ND         0.0004         0.0004         0.0002         0.03         5         J           Uranilum-236         0.000019         0.00007         0.0002         0.03         5         J           Vanadium		Copper	0.00314	0.0002	0.001	뮏	Ŋ			075723-009	SW846 6020
Lead         ND         0.0005         0.0015         NE         0.05         U           Magnesium         10.1         0.005         0.015         NE         NE         B           Manganese         ND         0.0005         0.0002         0.002         0.002         U           Mercury         ND         0.0005         0.0002         0.002         0.002         U           Nickel         0.00328         0.0005         0.002         NE         NE         NE           Potassium         1.71         0.08         0.30         NE         NE         NE           Selenium         ND         0.0025         0.005         0.05         U         U           Silver         ND         0.0002         0.001         NE         NE         U           Sodium         24.2         0.08         0.25         NE         U         U           Uranitum         ND         0.0004         0.001         0.002         0.03         5         J           Uranitum-235         0.000019         0.00005         0.0002         0.03         5         J           Vanadium         0.0081         0.002         0.03		Iron	0.337	0.01	0.025	빙	N.			075723-009	SW846 6020
Magnesium         10.1         0.005         0.015         NE         NE         NE           Manganese         ND         0.0001         0.0005         NE         NE         U           Mercury         ND         0.0005         0.0002         0.002         U         U           Nickel         0.00328         0.0005         0.002         NE         NE         U         D           Potassium         1.71         0.08         0.30         NE         NE         U         D           Selenium         ND         0.0025         0.005         0.05         U         D         D           Silver         ND         0.0002         0.001         NE         NE         U         D           Thallium         ND         0.0004         0.001         0.005         NE         U         D           Uranium-235         0.000019         0.00005         0.00002         0.03         5         J         D           Uranium-238         0.000269         0.0002         0.03         5         B, J         B, J		Lead	ND	0.0005	0.002	NE	0.05	n		075723-009	SW846 6020
Manganese         ND         0.001         0.005         NE         NE           Mercury         ND         0.0005         0.0002         0.002         0.002         U           Nickel         0.00328         0.0005         0.002         NE         NE         U           Potassium         1.71         0.08         0.30         NE         NE         U           Selenium         ND         0.0025         0.005         0.05         U         U           Silver         ND         0.0002         0.001         NE         NE         U           Thallium         ND         0.0004         0.001         0.002         NE         U           Uranium         0.0007         0.00005         0.0002         0.03         5         J           Uranium-236         0.00269         0.00005         0.0002         0.03         5         J           Vanadium         0.0081         0.0002         0.03         5         J         R	Eubank-1	Magnesium	10.1	0.005	0.015	NE	NE	В		075723-009	SW846 6020
Iny         ND         0.00005         0.0002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.005         0	14-Feb-06	Manganese	QN	0.001	0.005	빙	NE	n		075723-009	SW846 6020
sium         0.00328         0.0005         0.002         NE         NE           lum         1.71         0.08         0.30         NE         NE           lum         ND         0.0025         0.005         0.05         U           m         24.2         0.08         0.25         NE         NE         U           lum         ND         0.0004         0.001         0.002         NE         U         ND           lum-235         0.000019         0.00005         0.0002         0.03         5         J         ND           lum-238         0.00269         0.00005         0.0002         0.03         5         J         ND           lium         0.0081         0.00005         0.0002         0.03         5         J         ND		Mercury	QN	0.00005	0.0002	0.002	0.002	ס		075723-009	SW846 7470
sium         1.71         0.08         0.30         NE         NE         NE           ium         ND         0.0025         0.005         0.05         0.05         U           m         ND         0.0002         0.001         NE         NE         U           lm         ND         0.0004         0.001         0.002         NE         U           lm         0.0007         0.00002         0.03         5         J         I           lm-235         0.000019         0.00005         0.0002         0.03         5         J         I           lm-238         0.00029         0.00005         0.003         5         J         I           limm         0.0081         0.00005         0.003         5         J         I		Nickel	0.00328	0.0005	0.002	N.	N.			075723-009	SW846 6020
lum         ND         0.0025         0.005         0.05         0.05         0.05         U           m         ND         0.0002         0.001         NE         0.05         U           lm         24.2         0.08         0.25         NE         NE         U           lm         ND         0.0004         0.001         0.002         NE         U         I           lm         0.0027         0.00005         0.003         5         J         I         I           lm-236         0.000019         0.00005         0.0002         0.03         5         J         I         I           limm         0.0081         0.0002         0.003         5         NE         B, J         I		Potassium	1.71	0.08	0:30	NE	NE			075723-009	SW846 6020
m         ND         0.0002         0.001         NE         0.05         U           m         24.2         0.08         0.25         NE         NE         NE         NE           mm         ND         0.0004         0.001         0.002         NE         N         N           lmm         0.0027         0.0005         0.003         5         J         N           lmm-236         0.000049         0.00005         0.0002         0.03         5         J         N           lium         0.0081         0.002         0.03         5         B, J         N         N         N		Selenium	QN	0.0025	0.005	0.05	0.05	n		075723-009	SW846 6020
14.2 0.08 0.25 NE NE NE U U O.000 ND 0.0004 0.0002 NE 0.000 ND 0.00005 0.0002 0.03 5 J J ND 0.00005 0.00007 0.03 5 J ND 0.00005 0.00007 0.03 5 ND		Silver	ND	0.0002	0.001	NE	0.05	n		075723-009	SW846 6020
ND         0.0004         0.001         0.002         NE         U           0.0027         0.00005         0.0002         0.03         5         J           0.000019         0.00007         0.0002         0.03         5         J           0.00269         0.00005         0.0002         0.03         5         J           0.0081         0.002         0.03         NE         B, J         B, J		Sodium	24.2	0.08	0.25	NE	NE			075723-009	SW846 6020
0.0027         0.00005         0.0002         0.03         5         Proposition           0.000019         0.00001         0.00007         0.03         5         J           0.00269         0.00005         0.0002         0.03         5         B,J           0.0081         0.002         0.03         NE         B,J         N		Thallium	QN	0.0004	0.001	0.002	NE	n		075723-009	SW846 6020
0.000019         0.00001         0.00007         0.03         5         J           0.00269         0.00005         0.0002         0.03         5         B,J           0.0081         0.002         0.03         NE         B,J		Uranium	0.0027	0.00005	0.0002	0.03	5			075723-009	SW846 6020
0.00269         0.00005         0.0002         0.03         5         8,J           0.0081         0.002         0.03         NE         B,J		Uranium-235	0.000019	0.00001	0.00007	0.03	5	ſ		075723-009	SW846 6020
0.0081 0.002 0.03 NE NE B,J		Uranium-238	0.00269	0.00005	0.0002	0.03	5			075723-009	SW846 6020
		Vanadium	0.0081	0.002	0.03	Ŋ	NE	В, Ј	В, Ј	075723-009	SW846 6020
Zinc 0.00275 0.002 0.01 NE NE B,J E		Zinc	0.00275	0.002	0.01	뮏	NE	В, Ј	В, Ј	075723-009	SW846 6020

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Table GWPP A-5
Summary of Dissolved (Filtered) Metal Results
Groundwater Protection Program Groundwater Surveillance Task

Resulta	MDL	PQL°	MCL / MAC	MAC	Laboratory	Validation	Sample No.	Analytical
	(mg/L)	(mg/L)	(mg/L)	<u></u>	Qualifier	Qualifier		Method
	0.005	0.015	묑	핑	7		075759-009	SW846 6020
0	0.0005	0.002	900.0	빙	ם		075759-009	SW846 6020
0	0.0015	0.005	0.01	0.1			075759-009	SW846 6020
o.	0.0005	0.002	2	-			075759-009	SW846 6020
0.0	0.0001	0.0005	0.004	N			075759-009	SW846 6020
0.0	0.0001	0.001	0.005	0.01	n		075759-009	SW846 6020
0	0.2	1.0	빙	빙			075759-009	SW846 6020
0.0	0.001	0.003	0.1	0.05	n		075759-009	SW846 6020
0.0	0.0001	0.001	NE	NE			075759-009	SW846 6020
0.0002	002	0.001	N	N	В		075759-009	SW846 6020
0.1		0.25	NE	NE			075759-009	SW846 6020
0.0005	35	0.002	빙	0.05	ח		075759-009	SW846 6020
0.05		0.15	NE	NE			075759-009	SW846 6020
0.01		0.05	NE	NE			075759-009	SW846 6020
0.00005	2	0.0002	0.002	0.002	n	B3, UJ	075759-009	SW846 7470
0.0005	2	0.002	NE	NE			075759-009	SW846 6020
0.08		0.3	NE	NE		ľ	075759-009	SW846 6020
0.0025	2	0.005	0.05	0.05	n	A2, UJ	075759-009	SW846 6020
0.0002	32	0.001	NE	0.05	n		002229-009	SW846 6020
0.8		2.5	NE	NE			075759-009	SW846 6020
0.0004	74	0.001	0.002	NE	n		075759-009	SW846 6020
0.00005	05	0.0002	0.03	2			075759-009	SW846 6020
0.00001	100	0.00007	0.03	5			075759-009	SW846 6020
0.00005	902	0.0002	0.03	2			075759-009	SW846 6020
0.002	02	0.03	NE	NE	U		075759-009	SW846 6020
0.002	CO	0.01	ΔN	ЦN	α		075759-009	SW846 6020

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(mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL / MA (mg/L)	MCL / MAC <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
0.005		0.015	N.	빙	B, U		075723-009	SW846 6020
0.0005	1	0.002	900'0	빙	ם		075723-009	SW846 6020
0.0015		0.005	0.01	0.1	B, U		075723-009	SW846 6020
0.0005		0.002	2	_			075723-009	SW846 6020
0.0001		0.0005	0.004	빙	ס		075723-009	SW846 6020
0.0001		0.001	0.005	0.01	D		075723-009	SW846 6020
0.02		0.10	NE	뵘	В		075723-009	SW846 6020
0.001		0.003	0.1	0.05	B, U		075723-009	SW846 6020
0.0001		0.001	NE	N.	ſ		075723-009	SW846 6020
0.0002		0.001	NE	빙			075723-009	SW846 6020
0.01		0.025	Ä	빙			075723-009	SW846 6020
0.0005		0.002	NE	0.05	ס		075723-009	SW846 6020
0.005		0.015	NE	NE NE	В		075723-009	SW846 6020
0.001		0.005	NE	N	n		075723-009	SW846 6020
0.00005		0.0002	0.002	0.002	n		075723-009	SW846 7470
0.0005		0.002	NE	NE			075723-009	SW846 6020
0.08		0.30	NE	NE			075723-009	SW846 6020
0.0025		0.005	0.05	0.05	n		075723-009	SW846 6020
0.0002		0.001	NE	0.05	n		075723-009	SW846 6020
0.08		0.25	NE	NE			075723-009	SW846 6020
0.0004		0.001	0.002	NE	n		075723-009	SW846 6020
0.00005		0.0002	0.03	5			075723-009	SW846 6020
0.00001		0.00007	0.03	5	7		075723-009	SW846 6020
0.00005		0.0002	0.03	5			075723-009	SW846 6020
0.002		0.03	NE	NE	В, Ј	В, Ј	075723-009	SW846 6020
0.002		0.01	ЦV	ħ	- a		075723-009	SW846 6020

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Table GWPP A-5
Summary of Dissolved (Filtered) Metal Results
Groundwater Protection Program Groundwater Surveillance Task

0.005 0.0005 0.00015 0.0001 0.0001 0.0001 0.0002 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.005 0.0005 0.00015 0.0001 0.0001 0.0001 0.0001 0.0002		S NE O.1				
Antimony         ND         0.0005           Arsenic         ND         0.0015           Barium         0.061         0.0005           Beryllium         ND         0.0001           Cadmium         ND         0.0001           Calcium         52.3         0.1           Chromium         0.00284         0.001           Cobalt         0.00056         0.000           Iron         0.292         0.01           Lead         ND         0.0005           Magnesium         16.1         0.005           Mercury         ND         0.0005           Nickel         0.00188         0.0005           Potassium         3.74         0.08           Selenium         ND         0.0002           Sodium         20.0         0.08           Thallium         0.000553         0.0004           Uranium         0.00054         0.0005	0.0005 0.0015 0.0001 0.0001 0.0001 0.0001 0.0002			В, Л	В, В2, Ј	075754-009	SW846 6020
Arsenic         ND         0.0015           Barium         0.061         0.0005           Beryllium         ND         0.0001           Cadmium         ND         0.0001           Calcium         52.3         0.1           Chromium         0.00284         0.001           Cobalt         0.00056         0.000           Iron         0.292         0.01           Lead         ND         0.0005           Iron         0.292         0.01           Magnesium         16.1         0.005           Marganese         ND         0.0005           Marganesium         3.74         0.08           Potassium         3.74         0.08           Selenium         ND         0.0005           Sodium         20.0         0.08           Thallium         0.000553         0.0004           Uranium         0.000563         0.00005	0.0015 0.0005 0.0001 0.001 0.0001 0.0002			ס		075754-009	SW846 6020
Barium         0.061         0.0005           Beryllium         ND         0.0001           Cadchium         ND         0.0001           Calcium         52.3         0.1           Chromium         0.00284         0.001           Cobalt         0.000166         0.0001           Iron         0.292         0.01           Iron         0.292         0.01           Magnesium         16.1         0.005           Mercury         ND         0.0005           Nickel         0.00188         0.0005           Nickel         0.00188         0.0005           Selenium         ND         0.002           Sodium         20.0         0.08           Thallium         0.000553         0.0004           Uranium         0.00364         0.00005	0.0005 0.0001 0.0001 0.0001 0.0002 0.0002			ס		075754-009	SW846 6020
Beryllium         ND         0.0001           Cadmium         ND         0.0001           Calcium         52.3         0.1           Chromium         0.00284         0.001           Cobalt         0.00056         0.0001           Iron         0.00056         0.001           Iron         0.292         0.01           Iron         0.005         0.005           Magnesium         16.1         0.005           Mercury         ND         0.0005           Nickel         0.00188         0.0005           Potassium         3.74         0.08           Selenium         ND         0.0005           Sodium         20.0         0.08           Thallium         0.000553         0.0004           Uranium         0.00364         0.00005	0.0001 0.0001 0.0001 0.0002 0.0002		_			075754-009	SW846 6020
Cadrium         ND         0.0001           Calcium         52.3         0.1           Chromium         0.00284         0.001           Cobalt         0.00056         0.0001           Copper         0.000656         0.000           Iron         0.292         0.01           Lead         ND         0.0005           Magnesium         16.1         0.005           Mercury         ND         0.0005           Nickel         0.00188         0.0005           Potassium         3.74         0.08           Selenium         ND         0.0002           Sodium         20.0         0.08           Thallium         0.00053         0.0004           Uranium         0.00364         0.00005	0.0001 0.001 0.0001 0.0002 0.01		4 NE	ס		075754-009	SW846 6020
Calcium         52.3         0.1           Chromium         0.00284         0.001           Cobalt         0.000166         0.0001           Copper         0.000656         0.0002           Iron         0.292         0.01           Lead         ND         0.0005           Magnesium         16.1         0.005           Mercury         ND         0.0005           Nickel         0.00188         0.0005           Potassium         3.74         0.08           Selenium         ND         0.0002           Sodium         20.0         0.08           Thallium         0.000553         0.0004           Uranium         0.00364         0.00005	0.001		5 0.01	ס		075754-009	SW846 6020
Chromium         0.00284         0.001           Cobalt         0.000166         0.0001           Copper         0.000656         0.0002           Iron         0.292         0.01           Lead         ND         0.0005           Magnesium         16.1         0.005           Manganese         ND         0.0005           Nickel         0.00188         0.0005           Nickel         0.00188         0.008           Selenium         ND         0.0025           Silver         ND         0.0002           Sodium         20.0         0.08           Thallium         0.000553         0.0004           Uranium         0.00364         0.00005	0.0001	0.5 NE	N	В		075754-009	SW846 6020
Cobalt         0.000166         0.0001           Iron         0.292         0.01           Lead         ND         0.005           Magnesium         16.1         0.005           Marganese         ND         0.001           Mercury         ND         0.0005           Nickel         0.00188         0.0005           Potassium         3.74         0.08           Selenium         ND         0.0025           Sodium         20.0         0.08           Thallium         0.000553         0.0004           Uranium         0.00364         0.00005	0.0001	0.003	0.05	В, Ј	B, B2, J	075754-009	SW846 6020
Copper         0.000656         0.0002           Iron         0.292         0.01           Lead         ND         0.0005           Manganese         ND         0.001           Mercury         ND         0.0005           Nickel         0.00188         0.0005           Potassium         3.74         0.08           Selenium         ND         0.0025           Sodium         20.0         0.08           Thallium         0.000553         0.0004           Uranium         0.00364         0.0005	0.0002	.001 NE	N	٦		075754-009	SW846 6020
Iron         0.292         0.01           Lead         ND         0.0005           Magnesium         16.1         0.005           Manganese         ND         0.0001           Mercury         ND         0.0005           Nickel         0.00188         0.0005           Potassium         3.74         0.08           Selenium         ND         0.0025           Sodium         20.0         0.08           Thallium         0.000553         0.0004           Uranium         0.000563         0.00005	0.01	.001 NE	N	٦		075754-009	SW846 6020
Lead         ND         0.0005           Magnesium         16.1         0.005           Manganese         ND         0.001           Mercury         ND         0.0005           Nickel         0.00188         0.0005           Potassium         3.74         0.08           Selenium         ND         0.0025           Silver         ND         0.0002           Sodium         20.0         0.08           Thallium         0.000553         0.0004           Uranium         0.00364         0.00005		.025 NE	N			075754-009	SW846 6020
Magnesium         16.1         0.005           Manganese         ND         0.001           Mercury         ND         0.0005           Nickel         0.00188         0.005           Potassium         3.74         0.08           Selenium         ND         0.0025           Silver         ND         0.0002           Sodium         20.0         0.08           Thallium         0.000553         0.0004           Uranium         0.00364         0.00005	0.0005	.002 NE	0.05	ס		075754-009	SW846 6020
Manganese         ND         0.001           Mercury         ND         0.00005           Nickel         0.00188         0.0005           Potassium         3.74         0.08           Selenium         ND         0.0025           Silver         ND         0.0002           Sodium         20.0         0.08           Thallium         0.000553         0.0004           Uranium         0.00364         0.00005	0.005	.015 NE	NE			075754-009	SW846 6020
ry ND 0.00055 sium 3.74 0.08 um ND 0.0025 m 20.0 0.08 m 20.0 0.08 m 0.000553 0.0004 um 0.00364 0.00005	0.001	.005 NE	NE	n		075754-009	SW846 6020
sium 3.74 0.005  um ND 0.0025  m 20.0 0.08  um 0.000553 0.0004  um 0.00364 0.00005	0.00005	.0002 0.002	2 0.002	n	B3, UJ	075754-009	SW846 7470
sium         3.74         0.08           um         ND         0.0025           m         20.0         0.08           um         0.000553         0.0004           um         0.00364         0.00005	0.0005	.002 NE	NE	ſ		075754-009	SW846 6020
um         ND         0.0025           ND         0.0002           m         20.0         0.08           im         0.000553         0.0004           im         0.00364         0.00005		0.3 NE	NE			075754-009	SW846 6020
m 20.0 0.008 m 20.0 0.08 m m 0.000553 0.0004 mm 0.00364 0.00005	0.0025	0.005	90.02	n		075754-009	SW846 6020
20.0 0.08 0.000553 0.0004 0.00364 0.00005	0.0002	).001 NE	0.05	n		075754-009	SW846 6020
0.000553 0.0004 0.00364 0.00005	0.08	0.25 NE	NE			075754-009	SW846 6020
0.00364 0.00005	0.0004	0.001 0.002	2 NE	ľ		075754-009	SW846 6020
	0.00005	.0002 0.03	9			075754-009	SW846 6020
Uranium-235 0.000024 0.00001 0.00007		00007 0.03	5	Ŋ		075754-009	SW846 6020
Uranium-238 0.00361 0.00005 0.0002	0.00005	.0002 0.03	9   9			075754-009	SW846 6020
Vanadium 0.00455 0.002 0.03	0.002	0.03 NE	NE	ľ		075754-009	SW846 6020
Zinc 0.0041 0.002 0.01	0.002	0.01 NE	NE	В, Ј	В, В2, Ј	075754-009	SW846 6020

Table GWPP A-5
Summary of Dissolved (Filtered) Metal Results
Groundwater Protection Program Groundwater Surveillance Task

e No. Analytical Method <sup>9</sup>	5-009 SW846 6020	5-009 SW846 7470	5-009 SW846 6020	_	5-009 SW846 6020																					
Sample No.	075755-009	075755-009	075755-009	075755-009	075755-009	075755-009	075755-009	075755-009	075755-009	075755-009	075755-009	075755-009	075755-009	075755-009	075755-009	075755-009		075755-009	075755-009 075755-009	075755-009 075755-009 075755-009	075755-009 075755-009 075755-009 075755-009	075755-009 075755-009 075755-009 075755-009 075755-009	075755-009 075755-009 075755-009 075755-009 075755-009	075755-009 075755-009 075755-009 075755-009 075755-009 075755-009	075755-009 075755-009 075755-009 075755-009 075755-009 075755-009 075755-009	075755-009 075755-009 075755-009 075755-009 075755-009 075755-009 075755-009
Validation Qualifier <sup>6</sup>	B, B2, J							B, B2, J							B3, UJ											
Laboratory Qualifier	В, Л	)	D		n	n	В	В	ſ	7		N		n	n	7		,	n	ם כ	<b>D D</b>	ם ס	ם כ כ	5557	22 2 7	
MAC <sup>d</sup>	N N	뵘	0.1	-	Ŋ	0.01	Ŋ	0.05	NE	Ŋ	NE	0.05	N	NE	0.002	뵘	NE		0.05	0.05	0.05 0.05 NE	0.05 0.05 NE	0.05 0.05 NE NE	0.05 0.05 NE NE 5	0.05 0.05 NE NE 5	0.05 0.05 NE NE 5 5
MCL / MAC <sup>d</sup> (mg/L)	N N	900.0	0.01	2	0.004	0.005	빙	0.1	NE	빙	NE	NE	빙	NE	0.002	뮝	NE		0.05	0.05 NE	0.05 NE	0.05 NE NE 0.002	0.05 NE 0.002 0.03	0.05 NE NE 0.002 0.03	0.05 NE NE 0.002 0.03 0.03	0.05 NE NE 0.002 0.03 0.03 0.03
PQL° (mg/L)	0.015	0.002	0.005	0.002	0.0005	0.001	0.1	0.003	0.001	0.001	0.025	0.002	0.015	0.005	0.0002	0.002	0.3	0.00	0.00	0.001	0.001	0.001	0.001 0.05 0.001 0.0002	0.001 0.001 0.0001 0.0002	0.000 0.000 0.0002 0.0002 0.00007	0.001 0.001 0.0002 0.0002 0.0002 0.0002 0.0002
MDL <sup>b</sup> (mg/L)	0.005	0.0005	0.0015	0.0005	0.0001	0.0001	0.02	0.001	0.0001	0.0002	0.01	0.0005	0.005	0.001	0.00005	0.0005	0.08	0.0025	1	0.0002	0.0002	0.0004	0.0002 0.08 0.0004 0.00005	0.0002 0.08 0.0004 0.00005 0.00001	0.0002 0.08 0.0004 0.00005 0.00001	0.0002 0.08 0.0004 0.00005 0.00001 0.00005
Result <sup>a</sup> (mg/L)	0.00962	Q	QV	0.0578	QN	QN	49.1	0.00307	0.00015	0.000622	0.274	QN	15.7	ND	QN	0.00181	3.49	QN		ND	ND 21.4	ND 21.4 ND	ND 21.4 ND 0.00349	ND 21.4 ND 0.00349 0.000023	ND 21.4 ND 0.00349 0.000023 0.00347	ND 21.4 ND 0.00349 0.000023 0.00347 0.00261
Analyte	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium		Silver	Silver Sodium	Silver Sodium Thallium	Silver Sodium Thallium Uranium	Silver Sodium Thallium Uranium	Silver Sodium Thallium Uranium Uranium-235 Uranium-238	Silver Sodium Thallium Uranium Uranium-235 Uranium-238
Well ID												(	MKN-2	Duplicate 07-Mar-06												

Table GWPP A-5
Summary of Dissolved (Filtered) Metal Results
Groundwater Protection Program Groundwater Surveillance Task

Autminum         ND         0.005         0.015         0.016         0.016         0.016         0.016         0.016         0.016         0.016         0.006         0.006         0.0075         0.0005         0.0005         0.0005         0.0005         0.0005         0.0005         0.0004         0.0005         0.0004         0.0004         0.0005         0.0004         0.0005         0.0004         0.0005         0.0004         0.0005         0.0005         0.0005         0.0005         0.0005         0.0005         0.0005         0.0005         0.0005         0.0005         0.0005         0.0005         0.0005         0.0005         0.0005         0.0005         0.0005	Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL / MAC <sup>d</sup> (mg/L)	MAC <sup>d</sup> /L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
nony         0,000501         0,0005         0,0005         0,0005         0,0005         0,0005         0,0005         0,0005         0,0005         0,001         0,001         0,0005         0,001         0,001         0,0005         0,001         0,0005         0,001         0,0005         0,0005         0,0004         NE         N         0,7575-009         0,7575-009           nilum         ND         0,00001         0,0004         0,0004         0,001         0,0004         0,001         0,0004         0,001         0,0004         0,001         0,0004         0,000         0,001         0,0004         0,001         0,001         0,001         0,002         0,01         0,001         0,002         0,01         0,002         0,01         0,002         0,01         0,002         0,01         0,002<		Aluminum	QN	0.005	0.015	NE	NE	B, U		075757-009	SW846 6020
nich         ND         0.0015         0.005         0.01         0.1         0.0         07575-009           lilum         ND         0.0005         0.002         2         1         D         0.0557-009         0.001         0.0005         0.004         NE         D         0.7575-009		Antimony	0.000501	0.0005	0.002	900.0	NE	J	ВЗ, Ј	00-222-009	SW846 6020
Initum         ND         0.0005         0.0004         A         I         O         O75757-009           Initum         ND         0.0001         0.0005         0.004         NE         D         0.05757-009           Initum         ND         0.0001         0.0005         0.004         NE         D         0.075757-009           Initum         ND         0.0001         0.0003         0.01         0.005         0.01         0.055         0.01         0.0557-009           Initum         ND         0.0001         0.0001         NE         NE         N         0.0557-009         0.0557-009           Initum         ND         0.0005         0.001         NE         NE         N         0.0557-009         0.0557-009           Initum         ND         0.0005         0.001         NE         NE         N         0.0557-009         0.0557-009           Initum         ND         0.0005         0.002         0.002         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005		Arsenic	QN	0.0015	0.005	0.01	0.1	n		075757-009	SW846 6020
litum         ND         0.0001         0.0005         0.004         NE         U         0.05757-009           nium         ND         0.0001         0.0001         0.0001         0.0001         0.000         0.001         0.005         0.001         0.005         0.001         0.005         0.001         0.005         0.001         0.005         0.005         0.00         0.005<		Barium	0.149	0.0005	0.002	2	1			00-222-009	SW846 6020
nium         ND         0.0001         0.001         0.005         0.01         D         075757-009           um         56.4         0.1         0.5         NE         NE         B         075757-009           mium         ND         0.001         0.003         0.1         0.05         U         0         075757-009           alt         ND         0.001         0.001         NE         NE         N         0         075757-009           ber         0.000764         0.0002         0.001         NE         NE         N         0         075757-009           ber         0.000764         0.0002         0.001         NE         NE         N         0         0         075757-009           ber         0.163         0.015         NE         NE         N         0         075757-009         0         075757-009           sesium         11.5         0.005         0.015         NE         N         N         0         075757-009         0         075757-009         0         0         0         075757-009         0         0         0         0         0         0         075757-009         0         0		Beryllium	QN	0.0001	0.0005	0.004	NE	n		075757-009	SW846 6020
umm         56.4         0.1         0.5         NE         B         0 75757-009           mium         ND         0.001         0.003         0.1         0.05         U         0.75757-009           lett         ND         0.0001         0.001         NE         U         0.75757-009           lett         ND         0.0001         0.001         NE         D         0.75757-009           lett         0.000764         0.0002         0.001         NE         D         0.75757-009           lett         0.163         0.01         0.005         NE         NE         D         0.75757-009           lett         0.163         0.01         0.025         NE         NE         0.75757-009         0.75757-009           lett         ND         0.005         0.015         NE         NE         N         0.75757-009           lett         0.030         0.005         0.005         0.005         NE         NE         N         0.75757-009           lett         0.001         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0		Cadmium	QV	0.0001	0.001	0.005	0.01	n		075757-009	SW846 6020
milum         ND         0.001         0.003         0.1         0.05         U         0.7575-009           laft         ND         0.0001         0.001         NE         NE         U         0.7575-009           ler         0.000764         0.0002         0.001         NE         NE         D         0.7575-009           ler         0.163         0.01         0.025         NE         NE         N         0.7575-009           lesium         11.5         0.005         0.015         NE         NE         N         0.7575-009           larese         0.0303         0.001         0.005         NE         NE         N         0.7575-009           larese         0.0303         0.001         0.005         NE         NE         N         0.7575-009           laresium         11.5         0.0005         0.002         0.002         0.00         0.05         0.05         N         0.7575-009           ssium         5.11         0.08         0.06         0.05         0.05         0         0         0.7575-009           lum         ND         0.002         0.005         0.05         0.05         0         0		Calcium	56.4	0.1	0.5	Ŋ	NE	В		075757-009	SW846 6020
let         ND         0.0001         0.001         NE         NE         U         0.5575-009           ber         0.000764         0.0002         0.001         NE         J         0         0.7575-009           ber         0.163         0.01         0.005         0.001         NE         J         0         0.7575-009           ber         0.163         0.01         0.005         0.005         NE         NE         0         0         0.7575-009           bersium         11.5         0.005         0.015         NE         NE         NE         0         0         0.7575-009           ury         ND         0.0005         0.002         0.002         0.002         0		Chromium	QN	0.001	0.003	0.1	0.05	n		075757-009	SW846 6020
eer         0.000764         0.0002         0.001         NE         J         J         075757-009           resium         ND         0.005         0.01         NE         NE         ND         0.75757-009           resium         11.5         0.005         0.015         NE         NE         ND         0.75757-009           ganese         0.0303         0.001         0.005         NE         NE         NB         NB         0.75757-009           ury         ND         0.0005         0.0002         0.002         0.002         U         0.75757-009           sium         0.00137         0.0005         0.002         NB         NB         J         NB         0.75757-009           sium         ND         0.0025         0.002         0.002         0.005         0.005         0.05         0.05         O         0.75757-009           ium         ND         0.0025         0.005         0.055         NB         NB         NB         0.75757-009         0.75757-009           ium         0.000481         0.000         0.005         0.005         0.055         NB         NB         0.75757-009         0.75757-009           ium		Cobalt	QN	0.0001	0.001	Ш	NE	n		075757-009	SW846 6020
nesium         0.163         0.01         0.025         NE         NE         NE         OND         OVESTS7-009           nesium         11.5         0.0005         0.015         NE         0.05         U         075757-009         075757-009           ganese         0.0303         0.001         0.005         0.002         0.002         U         075757-009         075757-009           uvy         ND         0.0005         0.002         0.002         0.002         U         075757-009         075757-009           sium         5.11         0.0005         0.002         0.002         0.002         0.002         U         075757-009           nium         ND         0.0005         0.005         0.005         0.005         0.005         0.005         U         075757-009           nm         ND         0.0002         0.005 <td< td=""><td></td><td>Copper</td><td>0.000764</td><td>0.0002</td><td>0.001</td><td>Ш</td><td>빙</td><td>٦</td><td></td><td>075757-009</td><td>SW846 6020</td></td<>		Copper	0.000764	0.0002	0.001	Ш	빙	٦		075757-009	SW846 6020
esium         ILS         0.005         0.002         NE         0.05         U         07575-009           ganese         0.0303         0.0015         0.005         NE         NE         NE         0.00         0.7575-009           uny         ND         0.0005         0.002         0.002         0.002         0.002         0.005		Iron	0.163	0.01	0.025	Ш	빙			075757-009	SW846 6020
nesium         11.5         0.005         0.015         NE         NE         NE         OF575-009           Janese         0.0303         0.001         0.005         NE         NE         N         0.7575-009           Jury         ND         0.0005         0.0002         0.002         0.002         U         0.7575-009           Ssium         5.11         0.005         0.002         NE         NE         J         0.7575-009           Inium         ND         0.0025         0.005         0.05         U         0.7575-009           Inium         0.000481         0.0004         0.001         NE         J         0.7575-009           Inium         0.000481         0.0004         0.001         NE         J         0.7575-009           Inium         0.000481         0.0004         0.0002         0.03         5         J         0.7575-009           Inium         0.000383         0.00005         0.00002         0.03         5         J         0.7575-009           Inium-236         0.00038         0.00005         0.0000         0.03         5         J         0.7575-009           Inium-238         0.00038         0.03		Lead	QN	0.0005	0.002	Ш	0.05	n		075757-009	SW846 6020
ganese         0.0303         0.001         0.005         NE         NE         NE         0.002         O.005         0.0055         0.0002         0.002         U         0.75757-009           silm         0.00137         0.0005         0.0002         0.002         0.005         0.005         0.005         0.05         0.0         0.0557-009 <td< td=""><td>MRN-3D</td><td>Magnesium</td><td>11.5</td><td>0.005</td><td>0.015</td><td>Ш</td><td>NE</td><td></td><td></td><td>075757-009</td><td>SW846 6020</td></td<>	MRN-3D	Magnesium	11.5	0.005	0.015	Ш	NE			075757-009	SW846 6020
ury         ND         0.00005         0.0002         0.002         0.002         0.002         0.002         0.005         0	08-Mar-06	Manganese	0.0303	0.001	0.005	NE	NE			00-222-009	SW846 6020
ell         0.00137         0.0005         0.002         NE         J         O		Mercury	QN	0.00005	0.0002	0.002	0.002	n		075757-009	SW846 7470
ssium         5.11         0.08         0.3         NE         NE         NE         O.05         O.05<		Nickel	0.00137	0.0005	0.002	Ш	NE	٦		075757-009	SW846 6020
nium         ND         0.0025         0.005         0.05 <t< td=""><td></td><td>Potassium</td><td>5.11</td><td>0.08</td><td>0.3</td><td>ШZ</td><td>NE</td><td></td><td></td><td>075757-009</td><td>SW846 6020</td></t<>		Potassium	5.11	0.08	0.3	ШZ	NE			075757-009	SW846 6020
r         ND         0.0002         0.001         NE         0.05         U         075757-009           lum         34.6         0.08         0.25         NE         NE         J         075757-009           lum         0.000481         0.0004         0.001         0.002         NB         5         J         075757-009           lum-236         0.00024         0.00007         0.03         5         J         075757-009           lum-238         0.00038         0.00005         0.003         0.03         5         J         075757-009           dium         ND         0.002         0.03         NE         NE         N         075757-009           dium         ND         0.002         0.03         NE         NE         B, J         B, J         075757-009		Selenium	QN	0.0025	0.005	0.05	0.05	n		075757-009	SW846 6020
um         34.6         0.08         0.25         NE         NE         J         OF5757-009           ium         0.000481         0.0004         0.001         0.002         NE         J         0.55757-009           ium-235         0.000024         0.00007         0.033         5         J         0.75757-009           ium-238         0.00038         0.00005         0.0002         0.03         5         J         0.75757-009           dium         ND         0.002         0.03         NE         NE         U         0.75757-009           dium         ND         0.002         0.03         NE         NE         B, J         B, J         0.75757-009		Silver	QN	0.0002	0.001	NE	0.05	n		00-222-009	SW846 6020
lum         0.000481         0.0004         0.001         0.002         NE         J         OF5757-009           lum         0.00383         0.00005         0.0002         0.03         5         J         0.75757-009           lum-236         0.00024         0.00002         0.003         5         J         0.75757-009           lum-238         0.0038         0.0002         0.03         5         D         0.75757-009           dium         ND         0.002         0.03         NE         NE         D         0.75757-009           dium         0.00931         0.002         0.01         NE         NE         B, J         B, J         0.75757-009		Sodium	34.6	0.08	0.25	ШZ	NE			075757-009	SW846 6020
lum         0.00383         0.00005         0.00002         0.033         5         J         75757-009           lum-235         0.000024         0.00001         0.00007         0.03         5         J         075757-009           lum-238         0.0038         0.00005         0.003         0.03         5         N         075757-009           dium         ND         0.002         0.03         NE         N         B, J         B, J         075757-009		Thallium	0.000481	0.0004	0.001	0.002	NE	٦		075757-009	SW846 6020
ium-235         0.000024         0.00001         0.00007         0.03         5         J         O         75757-009           ium-238         0.0038         0.00005         0.0002         0.03         N         5         N         0         075757-009           dium         ND         0.002         0.03         N         N         N         B, J         B, J         B, J         075757-009		Uranium	0.00383	0.00005	0.0002	0.03	5			075757-009	SW846 6020
lum-238         0.0038         0.00005         0.0002         0.033         5         P<		Uranium-235	0.000024	0.00001	0.00007	0.03	5	ŋ		075757-009	SW846 6020
dium         ND         0.002         0.03         NE         NE         U         B, J         B, J         0.75757-009		Uranium-238	0.0038	0.00005	0.0002	0.03	5			075757-009	SW846 6020
0.00931 0.002 0.01 NE NE B,J B,J 075757-009		Vanadium	ND	0.002	0.03	NE	NE	U		075757-009	SW846 6020
		Zinc	0.00931	0.002	0.01	NE	NE	В, Ј		075757-009	SW846 6020

ND   0.006   0.016   NE   NE   U   0.75734-009   Ordinary   ND   0.0005   0.005   0.006   NE   U   O.75734-009   Ordinary   ND   0.0005   0.0005   0.0005   O.0005   O.0005	Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL / MAC <sup>d</sup> (mg/L)		Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
Antimony         ND         0,0005         0,0005         0,0006         NE         U         075734-009           Arsenic         ND         0,00015         0,0005         0,001         0,1         U         075734-009           Barlum         0,0003         0,0005         0,0005         0,001         U         075734-009           Beryllum         ND         0,0001         0,0001         0,0001         0,0001         0,007         0,007           Cadmium         ND         0,0001         0,0001         0,0001         0,0001         0,007         0,007           Calcium         55.5         0,004         0,2         NE         NE         B         075734-009           Calcium         56.5         0,004         0,001         NE         NE         B         075734-009           Calcium         56.5         0,004         0,001         NE         NE         J         075734-009           Calcium         6.001         0,001         NE         NE         NE         J         075734-009           Calcium         0.0202         0,001         NE         NE         NE         N         075734-009           Coppet         0.0		Aluminum	QN	0.005	0.015	NE	NE	ח		075734-009	SW846 6020
Arsenic         ND         0.0015         0.005         0.01         0.1         U         075734-009           Barium         0.0639         0.0005         0.0005         0.0005         0.0004         NE         U         075734-009           Beryllium         ND         0.0001         0.0001         0.0001         0.0001         U         075734-009           Calcium         56.5         0.04         0.2         NE         B         075734-009           Calcium         56.5         0.04         0.2         NE         NE         B         075734-009           Chromium         0.00015         0.0001         0.001         NE         NE         J         075734-009           Cobalt         0.00016         0.001         NE         NE         NE         J         075734-009           Cobalt         0.0019         0.001         NE         NE         NE         N         075734-009           Copper         0.0019         0.002         0.01         NE         N         0.75734-009           Manganese         ND         0.005         0.01         NE         N         0.75734-009           Nickel         ND         0.0005 <td></td> <td>Antimony</td> <td>ND</td> <td>0.0005</td> <td>0.002</td> <td>900.0</td> <td>NE</td> <td>n</td> <td></td> <td>075734-009</td> <td>SW846 6020</td>		Antimony	ND	0.0005	0.002	900.0	NE	n		075734-009	SW846 6020
Beryllium         0.0639         0.0005         0.004         NE         U         0.75734-009           Beryllium         ND         0.0001         0.0005         0.004         NE         U         0.75734-009           Cadmium         ND         0.0001         0.001         0.005         0.01         U         0.75734-009           Calcium         5.5.2         0.004         0.02         NE         B         0.75734-009           Calcium         0.00257         0.0011         0.003         0.1         0.05         J         0.75734-009           Cabelit         0.000165         0.001         0.001         NE         NE         NE         NE         NE         NE         NE         NE         NE         0.75734-009         NF         NE		Arsenic	ND	0.0015	0.005	0.01	0.1	n		075734-009	SW846 6020
Beryllium         ND         0.0001         0.0005         0.004         NE         U         075734-009           Cadmium         ND         0.0001         0.001         0.005         0.01         U         075734-009           Cadrium         55.5         0.044         0.2         NE         NE         B         075734-009           Calcium         55.5         0.001         0.001         NE         NE         D         075734-009           Chromium         0.000165         0.0001         NB         NB         NB         NB         NB           Cobat         0.00191         0.0002         0.001         NB		Barium	0.0639	0.0005	0.002	2	-			075734-009	SW846 6020
Cadmium         ND         0.0001         0.001         0.005         0.01         D         0.5734-009           Calcium         55.5         0.04         0.2         NE         NE         B         075734-009           Calcium         55.5         0.04         0.23         N.1         0.05         J         075734-009           Calcium         0.00257         0.0001         0.001         NE         N.         J         075734-009           Cobalt         0.00158         0.0001         N.         N.         N.         N.         075734-009           Iron         0.296         0.01         0.025         N.         N.         N.         N.         075734-009           Iron         0.206         0.01         0.025         N.         N.         N.         075734-009         075734-009           Magnesium         13.5         0.0005         0.015         N.         N.         N.         075734-009         075734-009           Mecury         N.         N.         N.         N.         N.         N.         0.05734-009         075734-009           Mecury         N.         N.         N.         N.         N.         N. </td <td></td> <td>Beryllium</td> <td>ND</td> <td>0.0001</td> <td>0.0005</td> <td>0.004</td> <td>N.</td> <td>ח</td> <td></td> <td>075734-009</td> <td>SW846 6020</td>		Beryllium	ND	0.0001	0.0005	0.004	N.	ח		075734-009	SW846 6020
Calcium         55.5         0.04         0.2         NE         NE         B         075734-009           Chromium         0.00257         0.001         0.003         0.1         0.05         J         0/5734-009           Cobalt         0.00165         0.0001         0.001         0.001         0.001         NE         J         0/5734-009           Copper         0.00191         0.0002         0.001         NE         NE         N         0/5734-009           Magnesium         0.296         0.01         0.005         0.015         NE         N         0/5734-009           Magnesium         13.5         0.005         0.015         NE         NE         N         0/5734-009           Mecury         ND         0.0005         0.005         NE         NE         N         0/5734-009           Nickel         ND         0.0005         0.0002         0.002         U         0/5734-009         N           Selenium         ND         0.0005         0.002         NE         NE         N         0/5734-009           Selenium         ND         0.0005         0.005         0.05         U         0/5734-009           Selenium<		Cadmium	ND	0.0001	0.001	0.005	0.01	n		075734-009	SW846 6020
Chromium         0.00257         0.001         0.003         0.01         0.05         J         075734-009           Cobalt         0.000165         0.0001         0.001         NE         J         0.05734-009           Copper         0.00191         0.0002         0.001         NE         NE         D         075734-009           Iron         0.296         0.01         0.025         NE         NE         D         075734-009           Magnesium         13.5         0.005         0.015         NE         NE         O         075734-009           Marganese         ND         0.0005         0.015         NE         NE         O         075734-009           Marganese         ND         0.0005         0.015         NE         NE         O         075734-009           Marginesium         13.5         0.0005         0.005         0.002         U         075734-009           Nickel         0.0021         0.005         0.002         U         075734-009           Nickel         0.0025         0.005         0.005         U         075734-009           Selenium         ND         0.0022         0.005         U         0.05734-009 <td></td> <td>Calcium</td> <td>55.5</td> <td>0.04</td> <td>0.2</td> <td>빙</td> <td>N.</td> <td>В</td> <td></td> <td>075734-009</td> <td>SW846 6020</td>		Calcium	55.5	0.04	0.2	빙	N.	В		075734-009	SW846 6020
Cobalt         C.000165         0.0001         NE         J         J         OF5734-009           Copper         0.00191         0.0002         0.001         NE         NE         D         075734-009           Iron         0.296         0.01         0.025         NE         NE         NE         0.05         U         075734-009           Wagnesium         13.5         0.005         0.015         NE         NE         NE         NE         NE         NE         NE         0.05734-009         NE         NE         NE         0.05734-009         NE         NE         NE         NE         NE         0.05734-009         NE		Chromium	0.00257	0.001	0.003	0.1	0.05	J		075734-009	SW846 6020
Copper         0.00191         0.0002         0.001         NE         NE         NE         O75734-009           Iron         0.296         0.01         0.025         NE         NE         0.05         U         075734-009           Magnesium         13.5         0.005         0.015         NE         NE         NE         0.05734-009           Manganese         ND         0.001         0.005         0.015         NE         NE         0.075734-009           Marcury         ND         0.0005         0.005         0.002         0.002         U         075734-009           Nickel         0.00215         0.0005         0.002         NE         NE         NE         0         075734-009           Nickel         0.00215         0.0005         0.002         NE         NE         0         075734-009         NE         075734-009         NE         075734-009         NE         075734-009         NE         0         075734-009         NE         NE         NE         NE         NE         0         075734-009         NE		Cobalt	0.000165	0.0001	0.001	NE	NE	ſ		075734-009	SW846 6020
Iron         0.296         0.01         0.025         NE         NE         NE         O75734-009           Lead         ND         0.0005         0.005         NE         0.05         U         075734-009           Magnesium         13.5         0.005         0.015         NE         NE         N         075734-009           Manganese         ND         0.0001         0.002         0.002         0.002         0.002         O.002           Mercury         ND         0.0005         0.002         0.002         0.00         0.005         O           Nickel         0.00215         0.0005         0.002         0.00         0.00         0.75734-009           Nickel         0.00216         0.0005         0.005         NE         NE         NE         0.75734-009           Selenium         ND         0.0025         0.001         NE         NE         NE         0.75734-009           Sodium         ND         0.0002         0.001         NE         NE         N         0.75734-009           Uranium         0.00377         0.00005         0.002         0.03         5         J         0.75734-009           Vanadium         0.		Copper	0.00191	0.0002	0.001	NE	NE			075734-009	SW846 6020
Lead         ND         0.0005         0.0015         NE         NE         U         0.75734-009         COT5734-009           Magnesium         13.5         0.005         0.015         NE         NE         NE         0         0.75734-009         COT5734-009         COT5734-009 <td< td=""><td></td><td>Iron</td><td>0.296</td><td>0.01</td><td>0.025</td><td>NE</td><td>NE</td><td></td><td></td><td>075734-009</td><td>SW846 6020</td></td<>		Iron	0.296	0.01	0.025	NE	NE			075734-009	SW846 6020
W2 Magnesium         13.5         0.0055         0.015         NE         NE         O         075734-009           Manganese         ND         0.0001         0.005         NE         NE         U         075734-009         075734-009           Mercury         ND         0.0005         0.002         0.002         0.002         U         075734-009         075734-009           Nickel         0.00215         0.0005         0.005         0.05         0.05         U         075734-009         075734-009           Selenium         ND         0.0025         0.005         0.05         0.05         U         075734-009         075734-009           Soldium         22.9         0.08         0.25         NE         NE         N         075734-009           Uranium         ND         0.0004         0.001         NE         NE         N         075734-009           Uranium-235         0.000024         0.00007         0.002         0.03         5         J         075734-009           Uranium-238         0.00024         0.00007         0.03         5         J         075734-009           Vanadium         0.0591         0.002         0.03         6		Lead	ND	0.0005	0.002	N	0.05	n		075734-009	SW846 6020
Manganese         ND         0.001         0.005         NE         NE         U         075734-009           Mercury         ND         0.00005         0.0002         0.002         0.002         U         075734-009         075734-009           Nickel         0.00215         0.0005         0.002         0.005         0.05         0.05         U         075734-009         075734-009           Potassium         A.19         0.0025         0.005         0.05         0.05         U         075734-009         075734-009           Selenium         ND         0.0002         0.001         NE         NE         U         075734-009         075734-009           Sodium         22.9         0.08         0.25         NE         NE         N         075734-009         075734-009           Uranlium         ND         0.0004         0.0002         0.03         5         J         075734-009         075734-009           Uranlium-235         0.00024         0.00005         0.0000         0.03         5         J         075734-009         075734-009           Vanadium         0.0591         0.002         0.01         0.03         5         J         075734-009         <	NWTA3-MW2	Magnesium	13.5	0.005	0.015	NE	NE			075734-009	SW846 6020
ury         ND         0.00005         0.0002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.005         0	21-Feb-06	Manganese	ND	0.001	0.005	Ŋ	NE	n		075734-009	SW846 6020
sl         0.00215         0.0005         NE         NE         NE         OF5734-009         ssign           ssium         4.19         0.08         0.3         NE         NE         NE         0.05734-009         ssign           r         ND         0.0025         0.005         0.05         0.05         U         0.5734-009         ssign           r         ND         0.0002         0.001         NE         NE         N         0.75734-009         ssign           lum         22.9         0.00         0.000         0.00         NE         N         0.75734-009         ssign           lum         ND         0.0004         0.0002         0.03         5         J         0.75734-009         ssign           lum-235         0.000024         0.00005         0.0002         0.03         5         J         0.75734-009         ssign           lum-238         0.00021         0.0002         0.03         5         J         0.75734-009         ssign           dium         0.0591         0.01         NE         NE         N         0.75734-009         ssign		Mercury	ND	0.00005	0.0002	0.002	0.002	n		075734-009	SW846 7470
ssium         4.19         0.08         0.3         NE         NE         NE         OF5734-009         3           nium         ND         0.0025         0.005         0.05         U         0.75734-009         3           r         ND         0.0002         0.001         NE         NE         U         0.75734-009         3           lum         22.9         0.08         0.25         NE         U         0.75734-009         3           lum         ND         0.0004         0.001         0.002         NE         U         0.75734-009         3           lum-235         0.000377         0.00005         0.0002         0.03         5         J         0.75734-009         3           lum-238         0.00024         0.00005         0.0002         0.03         5         J         0.75734-009         3           dium         0.0621         0.002         0.03         5         J         0.75734-009         3           0.0591         0.002         0.03         NE         NE         D         0.75734-009         3		Nickel	0.00215	0.0005	0.002	NE	NE			075734-009	SW846 6020
rium         ND         0.0025         0.005         0.05         0.05         U         075734-009         s           r         ND         0.0002         0.001         NE         0.05         U         075734-009         s           um         22.9         0.08         0.25         NE         NE         U         075734-009         s           lum         0.00377         0.0004         0.001         0.002         0.03         5         J         075734-009         s           lum-235         0.000024         0.00007         0.003         5         J         075734-009         s           dium         0.0021         0.0002         0.03         5         J         075734-009         s           0.0591         0.002         0.03         5         J         075734-009         s		Potassium	4.19	0.08	0.3	NE	NE			075734-009	SW846 6020
r         ND         0.0002         0.001         NE         0.05         U         075734-009           lum         22.9         0.08         0.25         NE         NE         0         075734-009           lum         ND         0.0004         0.001         0.002         NB         N         075734-009           lum-235         0.00077         0.0007         0.03         5         J         075734-009           lum-238         0.00074         0.00007         0.03         5         J         075734-009           dium         0.0021         0.002         0.03         5         J         075734-009           dium         0.0591         0.002         0.01         NE         NE         N         075734-009		Selenium	ND	0.0025	0.005	0.05	0.05	n		075734-009	SW846 6020
um         22.9         0.08         0.25         NE         NE         O         075734-009           lum         ND         0.0004         0.001         0.002         NE         U         075734-009           lum         0.00377         0.00005         0.0002         0.03         5         J         075734-009           lum-238         0.00375         0.00005         0.0002         0.03         5         J         075734-009           dium         0.0021         0.002         0.03         K         J         075734-009           dium         0.0591         0.01         NE         NE         B         075734-009		Silver	ND	0.0002	0.001	Ŋ	0.05	n		075734-009	SW846 6020
lum         ND         0.0004         0.001         0.002         NE         U         0.75734-009           lum         0.00377         0.00005         0.0002         0.03         5         J         0.75734-009         0.75734-009           lum-235         0.000024         0.00007         0.03         5         J         0.75734-009         0.75734-009           lum-238         0.00375         0.00005         0.0002         0.03         5         J         0.75734-009         0.75734-009           dium         0.051         0.002         0.03         NE         NE         B         0.75734-009         0.75734-009		Sodium	22.9	0.08	0.25	NE	NE			075734-009	SW846 6020
ium         0.00377         0.00005         0.0002         0.03         5         J         075734-009           ium-235         0.000024         0.00001         0.00007         0.03         5         J         075734-009           ium-238         0.00375         0.00005         0.0002         0.03         5         D         075734-009           dium         0.0021         0.002         0.03         NE         NE         D         075734-009           0.0591         0.002         0.01         NE         B         075734-009		Thallium	ND	0.0004	0.001	0.002	NE	n		075734-009	SW846 6020
ium-235         0.000024         0.00001         0.00007         0.03         5         J         0.75734-009           ium-238         0.00375         0.00005         0.0002         0.03         5         m         075734-009           dium         0.0021         0.002         0.03         NE         NE         J         075734-009           0.0591         0.002         0.01         NE         NE         B         075734-009		Uranium	0.00377	0.00005	0.0002	0.03	2			075734-009	SW846 6020
ium-238         0.00375         0.00005         0.0002         0.03         5         0.0534-009           dium         0.0021         0.002         0.03         NE         J         075734-009           0.0591         0.002         0.01         NE         B         075734-009		Uranium-235	0.000024	0.00001	0.00007	0.03	2	ſ		075734-009	SW846 6020
dium 0.0021 0.002 0.03 NE NE J 0.75734-009 0.05 0.01 NE NE B 0.75734-009		Uranium-238	0.00375	0.00005	0.0002	0.03	5			075734-009	SW846 6020
0.0591 0.002 0.01 NE B 0.75734-009		Vanadium	0.0021	0.002	0.03	Ŋ	NE NE	ľ		075734-009	SW846 6020
		Zinc	0.0591	0.002	0.01	뮏	IJ N	В		075734-009	SW846 6020

Table GWPPA-5
Summary of Dissolved (Filtered) Metal Results
Groundwater Protection Program Groundwater Surveillance Task

ND   0.005   0.015   NE   NE   U   0.75736-009   NI	Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL / MAC <sup>d</sup> (mg/L)	1 <b>A</b> C <sup>d</sup> ∟)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>	
Antimony         ND         0,0005         0,002         0,006         NE         U         075736-009           Arsenic         ND         0,0015         0,005         0,01         0.1         U         075736-009           Bartum         0,0095         0,0005         0,004         NE         U         075736-009           Beryllium         ND         0,0001         0,0001         0,0001         0,001         0,001         0,007           Calcium         3.5 6         0,02         0,1         NE         NE         N         075736-009           Calcium         3.5 6         0,001         0,001         0,001         0,001         0,005         0,1         U         075736-009           Calcium         0,001         0,001         0,001         0,001         0,001         0,001         0,001         0,005         0,1         0,05         0         0,75736-009           Cobalt         0,001         0,001         0,001         0,001         0,005         0,06         0,05         0         0         0,75736-009         0         0         0         0         0         0         0         0         0         0         0         0		Aluminum	ND	0.005	0.015	NE	NE	U		075736-009	SW846 6020	
Arsenic         ND         0.0015         0.005         0.01         0.1         U         0.75736-009           Barium         0.0935         0.0005         0.001         0.004         NE         U         0.75736-009           Barium         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.07536-009           Cadrium         ND         0.0001         0.001         0.001         0.001         U         0.75736-009           Calcium         ND         0.0001         0.001         0.001         0.001         0.005         J         0.75736-009           Capper         O.00111         0.0002         0.001         NE         NE         N         0.75736-009           Copper         ND         0.0001         0.001         NE         NE         N         0.75736-009           Iron         0.0011         0.0002         0.001         NE         NE         N         0.75736-009           Magnesium         6.012         0.001         0.002         0.002         0.002         0.005         N         0.75736-009           Magnesium         ND         0.0005         0.001         NE         N         0		Antimony	ND	9000.0	0.002	900.0	NE	n		075736-009	SW846 6020	
Barium         0.00035         0.0006         0.002         2         1         0         075736-009           Beryllium         ND         0.0001         0.0005         0.004         NE         U         0.75736-009           Cadmium         3.001         0.001         0.001         0.001         0.005         0.01         U         0.75736-009           Cadmium         3.0014         0.001         0.001         0.001         0.005         J         D         D         0.75736-009           Chromium         0.00142         0.001         0.001         NB         NB         U         0.75736-009         0         0         0.75736-009         0 <t< td=""><td></td><td>Arsenic</td><td>ND</td><td>0.0015</td><td>0.005</td><td>0.01</td><td>0.1</td><td>n</td><td></td><td>075736-009</td><td>SW846 6020</td><td></td></t<>		Arsenic	ND	0.0015	0.005	0.01	0.1	n		075736-009	SW846 6020	
Beryllium         ND         0,0001         0,0005         0,004         NE         U         075736-009           Cadmium         ND         0,0001         0,0002         0,0001         0,0002         0,0001         0,0002 <t< td=""><td></td><td>Barium</td><td>0.0935</td><td>9000.0</td><td>0.002</td><td>2</td><td>1</td><td></td><td></td><td>075736-009</td><td>SW846 6020</td><td>_</td></t<>		Barium	0.0935	9000.0	0.002	2	1			075736-009	SW846 6020	_
Cadmium         ND         0,0001         0,001         0,005         0,01         U         0         075736-009           Calcium         35.6         0,022         0,1         NB         NB         0,05738-009         0           Chromlum         0,000142         0,0001         0,0001         0,0001         NB         NB         0         0,05738-009           Cobalt         ND         0,00011         0,0001         NB         NB         NB         0,07538-009           Iron         0,203         0,01         0,0002         0,001         NB         NB         0,05538-009           Magnesium         0,203         0,01         0,005         0,005         NB         NB         NB         0,75738-009           Marcury         ND         0,0005         0,005         NB         NB         NB         0,75738-009           Marcury         ND         0,0005         0,002         0,002         0,002         0,002         0,002         NB         NB         NF         NF <td< td=""><td></td><td>Beryllium</td><td>QN</td><td>0.0001</td><td>0.0005</td><td>0.004</td><td>뵘</td><td>ח</td><td></td><td>075736-009</td><td>SW846 6020</td><td>_</td></td<>		Beryllium	QN	0.0001	0.0005	0.004	뵘	ח		075736-009	SW846 6020	_
Calcium         3.6 (a)         0.02         0.1         NE         B         075736-009           Chromlum         0.00162         0.001         0.003         0.1         0.05         J         0.75736-009           Chromlum         0.00162         0.001         0.002         0.001         0.005         0.001         0.005         0.001         0.005 <td< td=""><td></td><td>Cadmium</td><td>QN</td><td>0.0001</td><td>0.001</td><td>0.005</td><td>0.01</td><td>ס</td><td></td><td>075736-009</td><td>SW846 6020</td><td>_</td></td<>		Cadmium	QN	0.0001	0.001	0.005	0.01	ס		075736-009	SW846 6020	_
Chromium         0.00162         0.001         0.003         0.1         0.05         J         O75736-009           Cobalt         ND         0.0001         0.001         NE         NE         N         075736-009           Copper         0.0011         0.0002         0.001         NE         NE         N         075736-009           Iron         0.203         0.01         0.025         NE         NE         N         075736-009           Magnesium         6.81         0.005         0.005         NE         NE         N         075736-009           Magnesium         6.81         0.005         0.005         NE         NE         N         075736-009           Nickel         0.00122         0.001         NE         NE         J         075736-009           Nickel         0.0016         0.0005         0.002         0.002         U         075736-009           Nickel         ND         0.0005         0.002         0.002         U         075736-009           Selenium         ND         0.0025         0.002         0.05         U         075736-009           Silver         ND         0.0025         0.001         0.005 </td <td></td> <td>Calcium</td> <td>35.6</td> <td>0.02</td> <td>0.1</td> <td>Ŋ</td> <td>뵘</td> <td>В</td> <td></td> <td>075736-009</td> <td>SW846 6020</td> <td>_</td>		Calcium	35.6	0.02	0.1	Ŋ	뵘	В		075736-009	SW846 6020	_
Cobatt         ND         0.0001         0.001         NE         U         075736-009           Copper         0.00111         0.0002         0.001         NE         NE         0         075736-009           Iron         0.203         0.01         0.025         NE         NE         0         075736-009           Iron         0.203         0.01         0.025         NE         NE         0         075736-009           Magnesium         6.81         0.005         0.015         NE         NE         J         075736-009           Marcury         ND         0.0005         0.015         NE         NE         J         075736-009           Mercury         ND         0.0005         0.005         0.002         0.002         O         075736-009           Mercury         ND         0.0005         0.0002         0.002         0.002         U         075736-009           Nickel         0.0016         0.0005         0.002         0.002         0.05         U         075736-009           Selenium         ND         0.002         0.001         0.05         U         0.05736-009           Silver         ND         0.0002		Chromium	0.00162	0.001	0.003	0.1	0.05	7		075736-009	SW846 6020	_
Copper         0.00111         0.0002         0.001         NE         NE         NE         OFF36-009           Iron         0.203         0.01         0.025         NE         NE         0.05         U         075736-009           Iread         ND         0.0055         0.015         NE         NE         N         075736-009           Magnesium         6.81         0.005         0.015         NE         NE         N         075736-009           Mercury         ND         0.0005         0.002         0.002         0.002         U         075736-009           Nickel         0.0016         0.0005         0.002         0.002         U         075736-009           Nickel         0.0016         0.0005         0.002         0.002         U         075736-009           Potassium         ND         0.0005         0.005         0.05         U         075736-009           Selenium         ND         0.0005         0.005         0.05         U         075736-009           Sodium         ND         0.0002         0.001         0.05         U         0         075736-009           Uranium         ND         0.0004         0.00		Cobalt	QN	0.0001	0.001	Ŋ	빙	Э		075736-009	SW846 6020	_
tron         0.203         0.01         0.025         NE         NE         OF536-009           Lead         ND         0.0005         0.015         NE         0.05         U         075736-009           Magnesium         6.81         0.005         0.015         NE         NE         J         075736-009           Manganese         0.00122         0.001         0.005         0.002         0.002         U         075736-009           Mercury         ND         0.0005         0.002         0.002         U         075736-009           Nickel         0.0016         0.0005         0.002         NE         J         075736-009           Nickel         0.0016         0.0005         0.002         0.05         U         075736-009           Selentium         ND         0.0025         0.005         0.05         U         075736-009           Silver         ND         0.0025         0.001         NE         NE         N         075736-009           Inallium         ND         0.0002         0.001         0.05         U         075736-009           Uranium-236         0.000052         0.0001         0.002         0.03         5		Copper	0.00111	0.0002	0.001	Ŋ	빙			075736-009	SW846 6020	_
Lead         ND         0.0005         0.002         NE         0.05         U         075736-009           Magnesium         6.81         0.005         0.015         NE         J         075736-009           Marcury         Manganese         0.00122         0.001         0.005         0.002         0.002         0.002         U           Mercury         ND         0.0005         0.0002         0.002         0.002         0.002         U         075736-009           Nickel         0.0016         0.0005         0.005         0.002         0.00         0.05         U         075736-009           Nickel         0.0016         0.0025         0.005         0.005         0.05         U         075736-009           Selenium         ND         0.0002         0.001         0.005         0.00         U         075736-009           Sodium         ND         0.0002         0.001         0.005         0.00         0.05         U         075736-009           Uranium         0.00352         0.00006         0.0002         0.03         5         J         075736-009           Uranium-238         0.00005         0.0000         0.03         5		Iron	0.203	0.01	0.025	Ŋ	NE			075736-009	SW846 6020	_
Wagnesium         6.81         0.005         0.015         NE         NE         J         075736-009           Manganese         0.00122         0.001         0.005         NE         NE         J         075736-009           Mercury         ND         0.0005         0.0002         0.002         U         075736-009           Nickel         0.0016         0.0005         0.002         NE         J         075736-009           Nickel         0.0016         0.0005         0.005         0.005         0.05         U         075736-009           Selenium         ND         0.0025         0.005         0.005         0.05         U         075736-009           Sodium         ND         0.0002         0.001         NE         NE         N         075736-009           Uranium         0.00052         0.00004         0.0001         0.0002         0.00         0.05         J         075736-009           Uranium-236         0.00005         0.00007         0.003         5         J         075736-009           Uranium-238         0.0005         0.00002         0.003         0.003         5         J         075736-009           Vanadium		Lead	QN	0.0005	0.002	Ŋ	0.05	Э		075736-009	SW846 6020	_
Manganese         0.00122         0.001         0.005         NE         J         O75736-009           Mercury         ND         0.00005         0.0002         0.002         U         075736-009           Nickel         0.0016         0.0005         0.002         NE         N         075736-009           Potassium         4.01         0.08         0.3         NE         NE         0         075736-009           Selenium         ND         0.0025         0.005         0.05         U         075736-009           Silver         ND         0.0022         0.001         NE         N         075736-009           Sodium         ND         0.0004         0.001         NE         N         075736-009           Uranium         ND         0.0004         0.001         0.002         N         075736-009           Uranium-235         0.00005         0.00007         0.003         5         J         075736-009           Vanadium         ND         0.0002         0.0000         0.03         5         J         075736-009           Vanadium         ND         0.0002         0.0002         0.003         5         J         075736-009	NWTA3-MW3D	Magnesium	6.81	0.005	0.015	Ŋ	NE.			075736-009	SW846 6020	_
Interpretation         Interpr	22-Feb-06	Manganese	0.00122	0.001	0.005	Ŋ	NE	7		075736-009	SW846 6020	1
I bin         0.0016         0.0005         0.002         NE         NE         J         O75736-009           sium         4.01         0.08         0.3         NE         NE         N         075736-009         075736-009           lum         ND         0.0025         0.005         0.05         U         075736-009         075736-009           m         40.3         0.08         0.25         NE         N         075736-009         075736-009           lm         ND         0.0004         0.001         0.002         NE         N         075736-009           lm-236         0.00052         0.0002         0.003         5         J         075736-009           lm-238         0.00056         0.00007         0.03         5         J         075736-009           lium         ND         0.002         0.003         5         J         075736-009           lium         ND         0.002         0.03         5         J         075736-009           0.00358         0.0002         0.03         NE         N         N         075736-009		Mercury	QN	0.00005	0.0002	0.002	0.002	ם		075736-009	SW846 7470	_
sium         4.01         0.08         0.3         NE		Nickel	0.0016	0.0005	0.002	岁	빙	7		075736-009	SW846 6020	_
lum         ND         0.0025         0.005         0.05         U         0.75736-009           m         ND         0.0002         0.001         NE         U         0.75736-009           m         40.3         0.002         0.001         NE         U         0.75736-009           lm         A0.3         0.004         0.001         0.002         NE         U         0.75736-009           lm         0.00352         0.00005         0.0002         0.03         5         J         0.75736-009           lm-236         0.00022         0.00007         0.003         5         J         0.75736-009           lium         ND         0.002         0.003         5         J         0.75736-009           lium         ND         0.002         0.03         5         J         0.75736-009           0.00358         0.0002         0.03         NE         U         0.75736-009		Potassium	4.01	0.08	0.3	N	뵘			075736-009	SW846 6020	ı —
m         ND         0.0002         0.001         NE         0.05         U         0.5736-009           Jm         40.3         0.08         0.25         NE         NE         0         075736-009           Jm         ND         0.0004         0.001         0.002         NE         U         075736-009           Jm         0.00352         0.00005         0.0002         0.03         5         J         075736-009           Jm-236         0.00022         0.00007         0.003         5         J         075736-009           Jilum         ND         0.002         0.03         5         U         075736-009           Jilum         ND         0.002         0.03         5         U         075736-009           Jm-238         0.0035         0.0002         0.03         5         U         075736-009		Selenium	QN	0.0025	0.005	0.05	0.05	ח		075736-009	SW846 6020	
um         40.3         0.08         0.25         NE         NE         O         075736-009           ium         ND         0.0004         0.001         0.002         NE         U         075736-009           ium         0.00352         0.00005         0.00007         0.03         5         J         075736-009           ium-236         0.00052         0.00007         0.03         5         J         075736-009           ium-238         0.0035         0.0002         0.003         5         N         075736-009           dium         ND         0.002         0.03         N         N         N         B.J         B.J         075736-009		Silver	QN	0.0002	0.001	NE	0.05	n		075736-009	SW846 6020	
ium         ND         0.0004         0.001         0.002         NE         U         075736-009           ium         0.00352         0.00005         0.0002         0.003         5         J         075736-009         075736-009           ium-235         0.000022         0.00007         0.003         5         J         075736-009         075736-009           ium-238         0.00035         0.00005         0.0002         0.03         5         J         075736-009         075736-009           dium         ND         0.002         0.01         NE         NE         B. J         D75736-009		Sodium	40.3	0.08	0.25	NE	뵘			075736-009	SW846 6020	_
ium         0.00352         0.00005         0.0002         0.03         5         J         075736-009           ium-235         0.000022         0.00001         0.00007         0.03         5         J         075736-009           ium-238         0.0035         0.00002         0.000         0.03         5         D         075736-009           dium         ND         0.002         0.03         NE         U         B. J         B. J         075736-009		Thallium	QN	0.0004	0.001	0.002	빙	ס		075736-009	SW846 6020	_
ium-235         0.000022         0.00001         0.00007         0.03         5         J         075736-009           ium-238         0.0035         0.00005         0.0002         0.03         5         0         075736-009         0           dium         ND         0.002         0.03         NE         N         B.J         B.J         075736-009		Uranium	0.00352	0.00005	0.0002	0.03	5			075736-009	SW846 6020	ı —
ium-238         0.0035         0.00005         0.0002         0.033         5         N         075736-009           dium         ND         0.002         0.03         NE         N         B. J         B. J         B. J         075736-009		Uranium-235	0.000022	0.00001	0.00007	0.03	22	7		075736-009	SW846 6020	_
dium ND 0.002 0.003 NE NE D 0.005 0.009 NE D 0.005 0.001 NE NE B.J B.J 075736-009		Uranium-238	0.0035	0.00005	0.0002	0.03	2			075736-009	SW846 6020	1
0.00358 0.002 0.01 NE NE B.J B.J 075736-009		Vanadium	ND	0.002	0.03	NE	NE	n		075736-009	SW846 6020	
		Zinc	0.00358	0.002	0.01	IJZ	뵘	В, Ј	В, Ј	075736-009	SW846 6020	_

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	Analyte	Kesult <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL / MA (mg/L)	MCL / MAC <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Aluminum	ND	0.005	0.015	NE	NE	n		075778-009	SW846 6020
	Antimony	ND	0.0005	0.002	900.0	NE	U		075778-009	SW846 6020
	Arsenic	QN	0.0015	0.005	0.01	0.1	Λ		075778-009	SW846 6020
	Barium	0.0801	0.0005	0.002	2	_			075778-009	SW846 6020
	Beryllium	QN	0.0001	0.0005	0.004	NE	n		075778-009	SW846 6020
	Cadmium	QN	0.0001	0.001	0.005	0.01	n		075778-009	SW846 6020
	Calcium	54.0	0.1	0.5	Ŋ	NE			075778-009	SW846 6020
	Chromium	0.00395	0.001	0.003	0.1	0.05	В	В, Ј	075778-009	SW846 6020
	Cobalt	0.000142	0.0001	0.001	뵘	NE	r		075778-009	SW846 6020
	Copper	0.000732	0.0002	0.001	빙	NE	T		075778-009	SW846 6020
	Iron	0.294	0.01	0.025	빙	NE			075778-009	SW846 6020
	Lead	QN	0.0005	0.002	뮏	0.05	D		075778-009	SW846 6020
2	Magnesium	8.98	0.005	0.015	빙	NE			075778-009	SW846 6020
03-Mar-06	Manganese	ND	0.001	0.005	NE	NE	n		075778-009	SW846 6020
	Mercury	QN	0.00005	0.0002	0.002	0.002	Ω	B3, UJ	075778-009	SW846 7470
	Nickel	0.0104	0.0005	0.002	JN	NE			075778-009	SW846 6020
	Potassium	3.49	0.08	0.3	N.	NE			075778-009	SW846 6020
	Selenium	ND	0.0025	0.005	0.05	0.05	n		075778-009	SW846 6020
	Silver	ND	0.0002	0.001	NE	0.05	n		075778-009	SW846 6020
	Sodium	20.6	0.08	0.25	NE	NE			075778-009	SW846 6020
	Thallium	0.000572	0.0004	0.001	0.002	NE	ſ		075778-009	SW846 6020
	Uranium	0.00315	0.00005	0.0002	0.03	5			075778-009	SW846 6020
	Uranium-235	0.000021	0.00001	0.00007	0.03	2	ſ		075778-009	SW846 6020
	Uranium-238	0.00313	0.00005	0.0002	0.03	5			075778-009	SW846 6020
	Vanadium	0.00264	0.002	0.03	NE	NE	J		075778-009	SW846 6020
Zinc	Zinc	0.0218	0.002	0.01	JN	NE			075778-009	SW846 6020

Table GWPP A-5
Summary of Dissolved (Filtered) Metal Results
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Aluminum Antimony Arsenic		Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL / MAC <sup>d</sup> (mg/L)	MAC⁴ /L)	Laboratory Qualifier*	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
Antimo	mn	ND	0.005	0.015	NE	NE	n		075750-009	SW846 6020
Arsenic	ny	ND	0.0005	0.002	900.0	NE	n		075750-009	SW846 6020
,		ND	0.0015	0.005	0.01	0.1	n		075750-009	SW846 6020
Barium		0.0564	0.0005	0.002	2	1			075750-009	SW846 6020
Beryllium	E.	QN	0.0001	0.0005	0.004	NE	n		075750-009	SW846 6020
Cadmium	mr	0.000312	0.0001	0.001	0.005	0.01	ר		075750-009	SW846 6020
Calcium		62.3	0.1	0.5	빙	NE			075750-009	SW846 6020
Chromium	mn	0.00313	0.001	0.003	0.1	0.05	В	В, Ј	075750-009	SW846 6020
Cobalt		0.000168	0.0001	0.001	빙	NE	ר		075750-009	SW846 6020
Copper		0.00105	0.0002	0.001	빙	NE			075750-009	SW846 6020
Iron		0.347	0.01	0.025	NE	NE			075750-009	SW846 6020
Lead		ND	0.0005	0.002	NE	0.05	n		075750-009	SW846 6020
PL-3 Magnesium	sium	11.7	0.005	0.015	Ŋ	NE			075750-009	SW846 6020
06-Mar-06 Manganese	ese	ND	0.001	0.005	NE	NE	n		075750-009	SW846 6020
Mercury	y	ND	0.00005	0.0002	0.002	0.002	n	B3, UJ	075750-009	SW846 7470
Nickel		0.00236	0.0005	0.002	NE	NE			075750-009	SW846 6020
Potassium	inm	4.85	0.08	0.3	NE	NE			075750-009	SW846 6020
Selenium	m	ND	0.0025	0.005	0.05	0.05	n		075750-009	SW846 6020
Silver		ND	0.0002	0.001	NE	0.05	n		075750-009	SW846 6020
Sodium		22.2	0.08	0.25	NE	NE			075750-009	SW846 6020
Thallium	u.	ND	0.0004	0.001	0.002	NE	n		075750-009	SW846 6020
Uranium	u	0.00348	0.00005	0.0002	0.03	5			075750-009	SW846 6020
Uranium-235	n-235	0.000023	0.00001	0.00007	0.03	5	ſ		075750-009	SW846 6020
Uranium-238	n-238	0.00345	0.00005	0.0002	0.03	5			075750-009	SW846 6020
Vanadium	mn	ND	0.002	0.03	NE	NE	D		075750-009	SW846 6020
Zinc		0.00993	0.002	0.01	Ŋ	N	٦		075750-009	SW846 6020

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL / MAC <sup>d</sup> (mg/L)	MAC <sup>d</sup> /L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
	Aluminum	ND	0.005	0.015	NE	NE	n		075730-009	SW846 6020
	Antimony	ND	0.0005	0.002	0.006	NE	n		075730-009	SW846 6020
	Arsenic	ND	0.0015	0.005	0.01	0.1	n		075730-009	SW846 6020
	Barium	0.0583	0.0005	0.002	2	_			075730-009	SW846 6020
	Beryllium	QN	0.0001	0.0005	0.004	NE	ח		075730-009	SW846 6020
	Cadmium	0.00031	0.0001	0.001	0.005	0.01	7		075730-009	SW846 6020
	Calcium	122	0.1	0.5	NE	NE			075730-009	SW846 6020
	Chromium	0.0018	0.001	0.003	0.1	0.05	ſ		075730-009	SW846 6020
	Cobalt	0.000652	0.0001	0.001	뮏	NE	7		075730-009	SW846 6020
	Copper	0.00214	0.0002	0.001	빙	NE			075730-009	SW846 6020
	Iron	902'0	0.01	0.025	NE	NE			075730-009	SW846 6020
	Lead	QN	0.0005	0.002	빙	0.05	n		075730-009	SW846 6020
SFR-2S	Magnesium	33.1	0.005	0.015	N	NE		ſ	075730-009	SW846 6020
23-Feb-06	Manganese	0.00663	0.001	0.005	NE	NE			075730-009	SW846 6020
	Mercury	ND	0.00005	0.0002	0.002	0.002	n		075730-009	SW846 7470
	Nickel	0.0442	0.0005	0.002	NE	NE			075730-009	SW846 6020
	Potassium	7.13	0.08	0.3	NE	NE			075730-009	SW846 6020
	Selenium	ND	0.0025	0.005	0.05	0.05	n		075730-009	SW846 6020
	Silver	ND	0.0002	0.001	NE	0.05	n		075730-009	SW846 6020
	Sodium	85.9	0.4	1.25	NE	NE			075730-009	SW846 6020
	Thallium	ND	0.0004	0.001	0.002	NE	n		075730-009	SW846 6020
	Uranium	0.017	0.00005	0.0002	0.03	5			075730-009	SW846 6020
	Uranium-235	0.000109	0.00001	0.00007	0.03	5			075730-009	SW846 6020
	Uranium-238	0.0169	0.00005	0.0002	0.03	5			075730-009	SW846 6020
	Vanadium	ND	0.002	0.03	Ŋ	NE	n		075730-009	SW846 6020
	Zinc	0.00615	0.002	0.01	NE	NE	В, Ј	В, Ј	075730-009	SW846 6020
Refer to footnotes on page 43	on page 43.									

Table GWPP A-5
Summary of Dissolved (Filtered) Metal Results
Groundwater Protection Program Groundwater Surveillance Task

Well ID Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL / MA (mg/L)	MCL / MAC <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
Aluminum	QN	0.005	0.015	N.	Ä	n		075727-009	SW846 6020
Antimony	QV	0.0005	0.002	900.0	빙	n		075727-009	SW846 6020
Arsenic	0.00478	0.0015	0.005	0.01	0.1	ſ		075727-009	SW846 6020
Barium	0.0113	0.0005	0.002	2	_			075727-009	SW846 6020
Beryllium	Q	0.0001	0.0005	0.004	빌	n		075727-009	SW846 6020
Cadmium	QV	0.0001	0.001	0.005	0.01	n		075727-009	SW846 6020
Calcium	62.8	0.2	1.0	빙	빙	В		075727-009	SW846 6020
Chromium	Q	0.001	0.003	0.1	0.05	n		075727-009	SW846 6020
Cobalt	0.000117	0.0001	0.001	Ŋ	Ŋ	ſ		075727-009	SW846 6020
Copper	0.00838	0.0002	0.001	JN.	N	В		075727-009	SW846 6020
Iron	0.313	0.01	0.025	빙	빙			075727-009	SW846 6020
Lead	QN	0.0005	0.002	빙	0.05	n		075727-009	SW846 6020
Magnesium	3.60	0.005	0.015	빙	빙			075727-009	SW846 6020
Manganese	QN	0.001	0.005	Ŋ	IJ	n		075727-009	SW846 6020
Mercury	QN	0.00005	0.0002	0.002	0.002	n		075727-009	SW846 7470
Nickel	0.00359	0.0005	0.002	N	빙			075727-009	SW846 6020
Potassium	2.47	0.08	0.3	N	岁			075727-009	SW846 6020
Selenium	ND	0.0025	900'0	0.05	0.05	n		075727-009	SW846 6020
Silver	ND	0.0002	0.001	NE	0.05	n		075727-009	SW846 6020
Sodium	1,130	8.0	25.0	JN.	N			075727-009	SW846 6020
Thallium	QN	0.0004	0.001	0.002	IJ	n		075727-009	SW846 6020
Uranium	0.000273	0.00005	0.0002	0.03	5	В	B,J	075727-009	SW846 6020
Uranium-235	ND	0.00001	0.00007	0.03	5	n		075727-009	SW846 6020
Uranium-238	0.000271	0.00005	0.0002	0.03	5	В	B,J	075727-009	SW846 6020
Vanadium	ND	0.002	0.03	NE	NE	U		075727-009	SW846 6020
Zinc	0.0325	0.002	0.01	JN	Ŋ			075727-009	SW846 6020

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Well ID	Analyte	Kesult (mg/L)	MDL" (mg/L)	PQL <sup>c</sup> (mg/L)	MCL / MAC (mg/L)	MAC.	Laboratory Qualifier	Validation Qualifier <sup>(</sup>	Sample No.	Analytical Method <sup>g</sup>
	Aluminum	Q	0.005	0.015	NE.	N N	ס		075728-009	SW846 6020
	Antimony	QN	0.0005	0.002	900.0	NE	n		075728-009	SW846 6020
	Arsenic	0.00331	0.0015	0.005	0.01	0.1	٦		075728-009	SW846 6020
	Barium	0.0116	0.0005	0.002	2	~			075728-009	SW846 6020
	Beryllium	QN	0.0001	0.0005	0.004	빙	n		075728-009	SW846 6020
	Cadmium	Q	0.0001	0.001	0.005	0.01	ס		075728-009	SW846 6020
	Calcium	64.8	0.2	1.0	Ŋ	빙	В		075728-009	SW846 6020
	Chromium	0.00174	0.001	0.003	0.1	0.05	٦	В3, Ј	075728-009	SW846 6020
	Cobalt	0.000128	0.0001	0.001	NE	NE	ſ		075728-009	SW846 6020
	Copper	0.00844	0.0002	0.001	Ŋ	빙	В		075728-009	SW846 6020
	Iron	0.317	0.01	0.025	NE	N			075728-009	SW846 6020
	Lead	QN	0.0005	0.002	NE	0.05	n		075728-009	SW846 6020
SFR-4T	Magnesium	3.58	0.005	0.015	Ŋ	빙			075728-009	SW846 6020
Duplicate 16-Feb-06	Manganese	ND	0.001	0.005	NE	NE	n		075728-009	SW846 6020
	Mercury	ND	0.00005	0.0002	0.002	0.002	n		075728-009	SW846 7470
	Nickel	0.00354	0.0005	0.002	NE	NE			075728-009	SW846 6020
	Potassium	2.50	0.08	0.3	NE	NE			075728-009	SW846 6020
	Selenium	ND	0.0025	0.005	0.05	0.05	n		075728-009	SW846 6020
	Silver	ND	0.0002	0.001	NE	0.05	n		075728-009	SW846 6020
	Sodium	1,100	8.0	25.0	NE	NE			075728-009	SW846 6020
	Thallium	ND	0.0004	0.001	0.002	NE	n		075728-009	SW846 6020
	Uranium	0.000254	0.00005	0.0002	0.03	5	В	В, Ј	075728-009	SW846 6020
	Uranium-235	QN	0.00001	0.00007	0.03	5	n		075728-009	SW846 6020
	Uranium-238	0.000252	0.00005	0.0002	0.03	5	В	В, Ј	075728-009	SW846 6020
	Vanadium	ND	0.002	0.03	N	빙	D		075728-009	SW846 6020
	Zinc	0.0344	0.002	0.01	ЫN	빙			075728-009	SW846 6020
Refer to footnotes on page 43.	ge 43.									

Table GWPP A-5
Summary of Dissolved (Filtered) Metal Results
Groundwater Protection Program Groundwater Surveillance Task

Analytical Method <sup>9</sup>	SW846 6020	SW846 7470	SW846 6020	SW846 6020	SW846 6020	SW846 6020																				
Sample No.	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009	075742-009
Validation Qualifier <sup>f</sup>								В, Ј		J, P1																В, Ј
Laboratory Qualifier <sup>e</sup>	ם	ח	n		n	ח	В	В, Ј	7	7		ח		n	ם	٦		n	ח		ח		7		7	В, Ј
IACd (-	뷘	뮝	0.1	-	뵘	0.01	뮝	0.05	뮝	뵘	빙	0.05	NE	NE	0.002	뮝	뮝	0.05	0.05	뮝	뮝	5	5	5	NE	R
MCL / MACd (mg/L)	N.	900.0	0.01	2	0.004	0.005	빙	0.1	빙	빙	빙	빙	빙	빙	0.002	빙	빙	0.05	빙	빙	0.002	0.03	0.03	0.03	빙	빙
PQL° (mg/L)	0.015	0.002	0.005	0.002	0.0005	0.001	0.1	0.003	0.001	0.001	0.025	0.002	0.015	0.005	0.0002	0.002	0.3	0.005	0.001	0.25	0.001	0.0002	0.00007	0.0002	0.03	0.01
MDL <sup>b</sup> (mg/L)	0.005	0.0005	0.0015	0.0005	0.0001	0.0001	0.02	0.001	0.0001	0.0002	0.01	0.0005	0.005	0.001	0.00005	0.0005	0.08	0.0025	0.0002	0.08	0.0004	0.00005	0.00001	0.00005	0.002	0.002
Result <sup>a</sup> (mg/L)	Q	QN	QN	0.0702	QN	QN	43.1	0.00269	0.000131	0.000766	0.248	QN	13.5	QN	QN	0.00167	3.98	QN	QN	35.7	QN	0.00314	0.00002	0.00312	0.00269	0.00292
Analyte	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Uranium	Uranium-235	Uranium-238	Vanadium	Zinc
Well ID													SWTA3-MW2	27-Feb-06												

APPENDICES A-29

Refer to footnotes on page 43.

ninum ND nony ND nic ND nic ND nic ND nimm 0.00639 nium 36.7 nium 36.7 nium 36.7 noto209 noto2	Well ID	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL / MACd (mg/L)	MAC <sup>d</sup>	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
Antimony         ND         0.0005         0.0005         0.0006         ND         0.0015         0.0015         0.0005         0.001         0.001         0.001         0.0015         0.0015         0.001         0.002         0.001         0.002         0.001         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002		Aluminum	ND	0.005	0.015	NE	NE	n		075744-009	SW846 6020
Arsenic         ND         0.0015         0.005         0.01         0.1         U         075744-009           Barlium         0.0639         0.0005         0.002         2         1         0         075744-009           Beryllium         ND         0.0001         0.0005         0.004         0.004         0.004         0.005           Calcium         ND         0.0001         0.0001         0.0001         0.0005         0.01         0.05         0.01         0.05         0.01         0.05         0.01         0.05         0.01         0.05         0.01         0.05         0.01         0.05         0.01         0.05         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005		Antimony	QN	0.0005	0.002	900.0	Ŋ	B, U		075744-009	SW846 6020
Barium         0.0639         0.0005         0.004         NE         1         075744-009           Beryllium         ND         0.0001         0.0005         0.004         NE         U         075744-009           Cadnium         ND         0.0001         0.001         0.005         0.01         NE         D         075744-009           Cadrium         3.0.7         0.0001         0.001         0.005         0.01         0.05         B, J         B, J         075744-009           Chomium         0.00015         0.0001         0.001         NB         NB         J         075744-009           Copper         0.000675         0.0002         0.001         NB         NB         J         075744-009           Copper         0.000675         0.0002         0.001         NB         NB         J         075744-009           Nopper         0.0005         0.005         NB         NB         J         075744-009           Nopper         ND         0.0005         0.005         NB         NB         J         075744-009           Magnesium         10.5         0.005         0.005         NB         NB         J         075744-009		Arsenic	ND	0.0015	0.005	0.01	0.1	n		075744-009	SW846 6020
Beryllium         ND         0.0001         0.0005         0.004         NE         U         075744-009           Cadmium         ND         0.0001         0.001         0.005         0.01         U         075744-009           Calcium         38.7         0.002         0.1         NE         B         D         075744-009           Chromium         0.00209         0.0001         0.003         0.1         0.05         B,J         B,J         075744-009           Chopert         0.000675         0.0001         NB         NB         J         075744-009           Coppert         0.000675         0.001         NB         NB         J         075744-009           Iron         0.228         0.01         NB         NB         J         075744-009           Coppert         0.000675         0.005         0.015         NB         NB         NB         075744-009           Magnesium         10.5         0.005         0.015         NB         NB         NB         075744-009           Marcury         ND         0.0005         0.005         0.002         0.002         NB         NB         NB         075744-009           Nicke		Barium	0.0639	0.0005	0.002	2	1			075744-009	SW846 6020
Cadmium         ND         0.0001         0.001         0.005         0.01         U         O75744-009           Calcium         36.7         0.02         0.1         NE         B         075744-009           Chromium         0.00209         0.001         0.003         0.1         0.05         B.J         075744-009           Chromium         0.00209         0.001         0.001         NE         J         N.5744-009           Copper         0.00015         0.001         0.001         NE         N         075744-009           Lond         ND         0.0005         0.005         NE         NE         N         075744-009           Magnesium         ND         0.001         0.005         NE         NE         N         075744-009           Marganese         ND         0.001         0.005         0.015         NE         N         075744-009           Marcury         ND         0.0005         0.005         0.002         0.002         U         075744-009           Nickel         0.00152         0.0005         0.002         0.00         D         0.05744-009           Nickel         0.00152         0.005         0.005		Beryllium	QN	0.0001	0.0005	0.004	JN.	Ω		075744-009	SW846 6020
Calcium         36.7         0.02         0.1         NE         NE         B         D         075744-009           Chromium         0.00209         0.001         0.003         0.1         0.05         B, J         B, J         075744-009           Cobalt         0.000115         0.0001         0.001         NE         NE         J         075744-009           Copper         0.000675         0.0002         0.001         NE         NE         J         075744-009           Iron         0.228         0.011         NE         NE         J         075744-009           Mangesium         0.028         0.015         NE         NE         U         075744-009           Mangesium         0.02         0.005         0.015         NE         NE         U         075744-009           Nickel         0.00152         0.0005         0.002         0.002         0.002         U         075744-009           Nickel         0.00152         0.0005         0.002         0.002         0.00         D         075744-009           Nickel         ND         0.0025         0.005         0.005         0.005         0.00         D         075744-009 <td></td> <td>Cadmium</td> <td>Q</td> <td>0.0001</td> <td>0.001</td> <td>0.005</td> <td>0.01</td> <td>Э</td> <td></td> <td>075744-009</td> <td>SW846 6020</td>		Cadmium	Q	0.0001	0.001	0.005	0.01	Э		075744-009	SW846 6020
Chromium         0.00209         0.001         0.003         0.1         0.05         B, J         B, J         075744-009           Cobalt         0.000115         0.0001         0.001         NE         J         0.05744-009           Copper         0.000675         0.0002         0.001         NE         J         0.75744-009           Iron         0.228         0.01         0.025         NE         NE         D         0.75744-009           Iron         0.228         0.01         0.005         0.015         NE         NE         0.05744-009           Magnesium         10.5         0.005         0.015         NE         NE         NE         0.75744-009           Mercury         ND         0.0005         0.005         0.002         0.002         0.00         0.75744-009           Nickel         0.00152         0.0005         0.002         0.002         0.00         0.05544-009           Nickel         0.00152         0.005         0.005         0.05         U         0.75744-009           Selenium         ND         0.0005         0.005         0.05         U         0.75744-009           Soliver         ND         0.005		Calcium	36.7	0.02	0.1	NE	NE	В		075744-009	SW846 6020
Cobatit         0.000115         0.0001         NE         NE         J         0.75744-009           Copper         0.000675         0.0002         0.001         NE         NE         J         0.75744-009           Iron         0.228         0.01         0.025         NE         NE         D         0.05744-009           Iron         0.228         0.01         0.005         NE         NE         N         0.75744-009           Magnesium         10.5         0.005         0.015         NE         NE         N         0.75744-009           Marcury         ND         0.0005         0.005         0.002         0.002         U         0.75744-009           Nickel         0.00152         0.0005         0.002         0.002         U         0.75744-009           Nickel         0.00152         0.005         0.002         0.00         N         0.75744-009           Nickel         0.00152         0.005         0.00         N         N         N         0.75744-009           Selenium         0.0025         0.002         0.00         N         N         N         0.75744-009           Sodium         0.0025         0.002		Chromium	0.00209	0.001	0.003	0.1	0.05	В, Ј	В, Ј	075744-009	SW846 6020
Copper         0.000675         0.0002         0.001         NE         J         J         0.0544-009           Iron         0.228         0.01         0.025         NE         NE         0.05         U         0.05744-009           Iron         0.028         0.005         0.005         NE         0.05         U         0.05744-009           Magnesium         10.5         0.005         0.015         NE         NE         N         0.05744-009           Marcury         ND         0.0005         0.002         0.002         U         0.7574-009         0.7574-009           Nickel         0.00152         0.0005         0.002         0.002         U         0.7574-009         0.7574-009           Nickel         0.00152         0.0005         0.005         0.0         NE         J         0.7574-009         0.7574-009           Nickel         0.0005         0.005         0.05         U         0.7574-009         0.7574-009         0.7574-009         0.7574-009         0.7574-009         0.7574-009         0.7574-009         0.7574-009         0.7574-009         0.7574-009         0.7574-009         0.7574-009         0.7574-009         0.7574-009         0.7574-009         0.7574-009		Cobalt	0.000115	0.0001	0.001	NE	Ŋ	ſ		075744-009	SW846 6020
Iron         0.228         0.01         0.025         NE         NE         NE         0.05         O         0.5544-009         Co         Co </td <td></td> <td>Copper</td> <td>0.000675</td> <td>0.0002</td> <td>0.001</td> <td>NE</td> <td>NE</td> <td>ſ</td> <td></td> <td>075744-009</td> <td>SW846 6020</td>		Copper	0.000675	0.0002	0.001	NE	NE	ſ		075744-009	SW846 6020
Lead         ND         0.0065         0.002         NE         0.05         U         075744-009           Magnesium         10.5         0.005         0.015         NE         NE         U         075744-009           Manganese         ND         0.0001         0.005         NE         NE         U         075744-009           Mercury         ND         0.0005         0.0002         0.002         0.002         U         075744-009           Nickel         0.00152         0.0005         0.002         0.002         0.00         0.05744-009           Nickel         0.00152         0.0005         0.005         0.05         0.0         0.05744-009           Selenium         ND         0.0005         0.005         0.05         0.0         0.05744-009           Silver         ND         0.0002         0.001         0.05         0.0         0.05744-009           Sodium         43.4         0.08         0.000         0.00         0.05         NE         N         0.75744-009           Inanium         0.000409         0.00001         0.00002         0.03         5         J         0.75744-009           Vanaium         0.00259         <		Iron	0.228	0.01	0.025	NE	NE.			075744-009	SW846 6020
Magnesium         10.5         0.005         0.015         NE         NE         O         075744-009           Manganese         ND         0.0001         0.005         NE         NE         U         075744-009           Mercury         ND         0.0005         0.002         0.002         0.002         U         B3, UJ         075744-009           Nickel         0.00152         0.0005         0.002         0.002         0.002         U         B3, UJ         075744-009           Nickel         0.00152         0.0005         0.002         0.005         0.05         U         D75744-009           Selenium         ND         0.0025         0.001         NE         NE         N         0.75744-009           Silver         ND         0.0002         0.001         NE         NE         J         B3, J         075744-009           Sodium         4.3.4         0.000         0.001         0.005         NE         J         B3, J         075744-009           Uranium         0.00261         0.00002         0.002         0.03         5         J         075744-009           Uranium-238         0.00259         0.0002         0.03         5 <td></td> <td>Lead</td> <td>QN</td> <td>0.0005</td> <td>0.002</td> <td>NE</td> <td>0.05</td> <td>n</td> <td></td> <td>075744-009</td> <td>SW846 6020</td>		Lead	QN	0.0005	0.002	NE	0.05	n		075744-009	SW846 6020
ganese         ND         0.001         0.005         NE         N         D         0.75744-009           sury         ND         0.00005         0.0002         0.002         U         B3, UJ         0.75744-009         0.75744-009           ssium         0.00152         0.0005         0.002         NE         NE         J         0.75744-009         0.75744-009           nium         ND         0.0025         0.005         0.05         U         0.75744-009         0.75744-009           r         ND         0.0002         0.001         NE         U         0.75744-009         0.75744-009           um         43.4         0.08         0.25         NE         J         B3, J         0.75744-009           um         0.000409         0.0004         0.001         0.002         NE         J         B3, J         0.75744-009           ium         0.00261         0.00005         0.0002         0.03         5         J         0.75744-009           ium-235         0.000261         0.00005         0.0002         0.03         5         J         0.75744-009           ium-238         0.000259         0.0000         0.003         5         J </td <td>SWTA3-MW3</td> <td>Magnesium</td> <td>10.5</td> <td>0.005</td> <td>0.015</td> <td>NE</td> <td>빌</td> <td></td> <td></td> <td>075744-009</td> <td>SW846 6020</td>	SWTA3-MW3	Magnesium	10.5	0.005	0.015	NE	빌			075744-009	SW846 6020
uny         ND         0.00005         0.0002         0.0002         0.0002         0.0002         0.0005         0.0005         0.0005         0.0005         0.0005         0.0005         0.005	28-Feb-06	Manganese	QN	0.001	0.005	NE	Ŋ	n		075744-009	SW846 6020
el         0.00152         0.0005         0.002         NE         J         OF5744-009           ssium         4.80         0.08         0.3         NE         NE         0         075744-009           r         0.08         0.08         0.05         0.05         U         075744-009           r         ND         0.0025         0.001         NE         D         075744-009           um         43.4         0.08         0.25         NE         D         075744-009           ium         43.4         0.08         0.001         0.002         NE         D         B3, J         075744-009           ium         0.00261         0.00049         0.0002         0.003         5         J         D         075744-009           ium-236         0.000017         0.00002         0.003         5         J         075744-009         D           ium-238         0.00259         0.00005         0.003         5         J         075744-009         D           ium-238         0.00259         0.003         NE         NE         D         075744-009         D           ium-238         0.0035         0.03         NE <t< td=""><td></td><td>Mercury</td><td>ND</td><td>0.00005</td><td>0.0002</td><td>0.002</td><td>0.002</td><td>n</td><td>B3, UJ</td><td>075744-009</td><td>SW846 7470</td></t<>		Mercury	ND	0.00005	0.0002	0.002	0.002	n	B3, UJ	075744-009	SW846 7470
ssium         4.80         0.08         0.3         NE         NE         NE         NE         O.05744-009         NE         NE <td></td> <td>Nickel</td> <td>0.00152</td> <td>0.0005</td> <td>0.002</td> <td>NE</td> <td>Ŋ</td> <td>ſ</td> <td></td> <td>075744-009</td> <td>SW846 6020</td>		Nickel	0.00152	0.0005	0.002	NE	Ŋ	ſ		075744-009	SW846 6020
rium         ND         0.0025         0.005         0.05         U         0.5744-009         R           r         ND         0.0002         0.001         NE         0.05         U         0.75744-009         0.75744-009           um         43.4         0.08         0.25         NE         J         B3, J         0.75744-009         0.75744-009           ium         0.00061         0.0004         0.002         0.03         5         J         0.75744-009         0.75744-009           ium-238         0.00059         0.00007         0.03         5         J         0.75744-009         0.75744-009           ium-238         0.00259         0.00005         0.0002         0.03         5         J         0.75744-009         0.75744-009           idium         0.00353         0.002         0.03         5         J         0.75744-009         0.75744-009           0.00315         0.002         0.03         6         N         B, J         0.75744-009         0.75744-009		Potassium	4.80	0.08	0.3	NE	NE			075744-009	SW846 6020
r         ND         0.0002         0.001         NE         0.05         U         075744-009           um         43.4         0.08         0.25         NE         NE         J         B3, J         075744-009           ium         0.000409         0.0004         0.001         0.002         NE         J         B3, J         075744-009           ium-235         0.00001         0.00002         0.03         5         J         075744-009           ium-238         0.00259         0.00002         0.03         5         J         075744-009           ium-238         0.00259         0.00002         0.03         5         J         075744-009           idium         0.00353         0.002         0.03         NE         NE         B, J         B, J         075744-009		Selenium	ND	0.0025	0.005	0.05	0.05	n		075744-009	SW846 6020
um         43.4         0.08         0.25         NE         NE         J         B3, J         075744-009           ium         0.000409         0.0004         0.001         0.002         NE         J         B3, J         075744-009           ium         0.00261         0.00005         0.000         0.003         5         J         075744-009           ium-236         0.00059         0.00005         0.000         0.003         5         J         075744-009           ium-238         0.00259         0.00005         0.003         NE         NE         J         075744-009           idium         0.00353         0.002         0.03         NE         NE         B, J         B, J         075744-009		Silver	ND	0.0002	0.001	NE	0.05	n		075744-009	SW846 6020
ium         0.000409         0.0004         0.0002         NE         J         B3, J         075744-009           ium         0.00261         0.00005         0.0002         0.03         5         J         075744-009           ium-236         0.000017         0.00007         0.03         5         J         075744-009           ium-238         0.00259         0.00005         0.003         5         J         075744-009           idium         0.00353         0.002         0.03         NE         B, J         B, J         075744-009		Sodium	43.4	0.08	0.25	NE	Ŋ			075744-009	SW846 6020
ium         0.00261         0.00005         0.0002         0.03         5         9         075744-009           ium-236         0.000017         0.00001         0.00007         0.03         5         J         075744-009         3           ium-238         0.00259         0.00005         0.0002         0.03         5         J         075744-009         3           idium         0.00353         0.002         0.03         NE         NE         B, J         B, J         075744-009         3		Thallium	0.000409	0.0004	0.001	0.002	NE	ſ	В3, Ј	075744-009	SW846 6020
ium-235         0.000017         0.00001         0.00007         0.03         5         J         075744-009           ium-238         0.00259         0.00005         0.0002         0.03         5         0         075744-009         8           idium         0.00353         0.002         0.03         NE         NE         B, J         B, J         075744-009		Uranium	0.00261	0.00005	0.0002	0.03	2			075744-009	SW846 6020
ium-238 0.00259 0.00005 0.002 0.03 5 0 0 075744-009 odd odd odd odd odd odd odd odd odd od		Uranium-235	0.000017	0.00001	0.00007	0.03	2	ſ		075744-009	SW846 6020
Idium         0.00353         0.002         0.03         NE         J         D         0.05744-009           0.00315         0.002         0.01         NE         B, J         B, J         0.75744-009		Uranium-238	0.00259	0.00005	0.0002	0.03	2			075744-009	SW846 6020
0.00315 0.002 0.01 NE B,J B,J 075744-009		Vanadium	0.00353	0.002	0.03	NE	Ŋ	٦		075744-009	SW846 6020
		Zinc	0.00315	0.002	0.01	Ŋ	빙	В, Ј	В, Ј	075744-009	SW846 6020

Table GWPP A-5
Summary of Dissolved (Filtered) Metal Results
Groundwater Protection Program Groundwater Surveillance Task

Alt	Allalyte	(mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL / MAC <sup>d</sup> (mg/L)	MAC⁴ L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
	Aluminum	ND	0.005	0.015	NE	NE	n		075746-009	SW846 6020
An	Antimony	QN	0.0005	0.002	900.0	NE	n		075746-009	SW846 6020
Ars	Arsenic	ND	0.0015	0.005	0.01	0.1	n		075746-009	SW846 6020
Ba	Barium	0.0535	0.0005	0.002	2	-			075746-009	SW846 6020
Be	Beryllium	ND	0.0001	0.0005	0.004	NE	n		075746-009	SW846 6020
S	Cadmium	QN	0.0001	0.001	0.005	0.01	ח		075746-009	SW846 6020
S	Calcium	34.8	0.02	0.1	Ŋ	NE			075746-009	SW846 6020
<u></u> ති	Chromium	0.00199	0.001	0.003	0.1	0.05	В, Ј	В, Ј	075746-009	SW846 6020
8	Cobalt	0.000101	0.0001	0.001	빙	NE	7		075746-009	SW846 6020
8	Copper	0.000738	0.0002	0.001	NE	NE	ſ		075746-009	SW846 6020
Iron	u	0.195	0.01	0.025	빙	NE			075746-009	SW846 6020
Ĕ	Lead	ND	0.0005	0.002	NE	0.05	n		075746-009	SW846 6020
SWTA3-MW4 Ma	Magnesium	98.6	0.005	0.015	NE	NE			075746-009	SW846 6020
01-Mar-06 Ma	Manganese	QN	0.001	0.005	NE	NE	ח		075746-009	SW846 6020
Me	Mercury	ND	0.00005	0.0002	0.002	0.002	n	B3, UJ	075746-009	SW846 7470
Ĭ	Nickel	0.00136	0.0005	0.002	빙	NE	7		075746-009	SW846 6020
P	Potassium	4.02	0.08	0.3	Ŋ	NE			075746-009	SW846 6020
Se	Selenium	ND	0.0025	0.005	0.05	0.05	n		075746-009	SW846 6020
Silv	Silver	QN	0.0002	0.001	NE	0.05	n		075746-009	SW846 6020
S	Sodium	59.3	0.4	1.25	JN.	NE			075746-009	SW846 6020
T	hallium-	QN	0.0004	0.001	0.002	NE	n		075746-009	SW846 6020
์ วั	Uranium	0.00242	0.00005	0.0002	0.03	5			075746-009	SW846 6020
์ วั	Uranium-235	0.000015	0.00001	0.00007	0.03	5	7		075746-009	SW846 6020
, n	Jranium-238	0.00241	0.00005	0.0002	0.03	5			075746-009	SW846 6020
Vai	/anadium	ND	0.002	0.03	NE	NE	n		075746-009	SW846 6020
Zinc	2(	0.013	0.002	0.01	NE	NE	В		075746-009	SW846 6020

Analytical Method <sup>g</sup>	SW846 6020	SW846 7470	SW846 6020	SW846 6020	SW846 6020	SW846 6020																				
Ang	SW8	SWS	SW8	SW8	SW8	SW8	SWS	SW8	SWS	SW8	SWS	SW8	SW8	SW8	SW8	SW8	SW8	SW8	SWS	SW8						
Sample No.	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009	075725-009
Validation Qualifier <sup>f</sup>								B3, UJ																		
Laboratory Qualifier <sup>e</sup>	ח	n	J		٦	n	В	n	7	В		ח		n	n			n	Π		7	В		В	n	7
ACd	NE	NE	0.1	1	Ŋ	0.01	NE	0.05	NE	Ŋ	NE	0.05	NE	NE	0.002	NE	NE	0.05	0.05	NE	NE	5	5	5	NE	NE
MCL / MAC <sup>d</sup> (mg/L)	NE NE	900.0	0.01	2	0.004	0.005	NE	0.1	NE	NE	NE	NE	NE	NE	0.002	NE	N.	0.05	NE	NE	0.002	0.03	0.03	0.03	NE	NE.
PQL° (mg/L)	0.015	0.002	0.005	0.002	0.0005	0.001	1.0	0.003	0.001	0.001	0.025	0.002	0.015	0.005	0.0002	0.002	0.3	0.005	0.001	2.5	0.001	0.0002	0.00007	0.0002	0.03	0.01
MDL <sup>b</sup> (mg/L)	0.005	0.0005	0.0015	0.0005	0.0001	0.0001	0.2	0.001	0.0001	0.0002	0.01	0.0005	0.005	0.001	0.00005	0.0005	0.08	0.0025	0.0002	0.8	0.0004	0.00005	0.00001	0.00005	0.002	0.002
Result <sup>a</sup> (mg/L)	QN	ND	0.00153	0.0468	0.000211	ND	165	ND	0.000478	0.00148	0.787	QN	34.6	ND	ND	0.00531	60.9	ND	ND	120	0.000434	0.0164	0.000118	0.0163	ND	0.00321
Analyte	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	ron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Uranium	Uranium-235	Uranium-238	Vanadium	Zinc age 43.
Well ID														15-Feb-06												Zinc Refer to footnotes on page 43

Table GWPP A-6 Summary of Total (Unfiltered) Mercury Results (EPA Method<sup>⊕</sup> SW846-7470) Groundwater Protection Program Groundwater Surveillance Task

Well ID	Sample Date	Mercury Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	(mî	MCL / MAC⁴ (mg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
Coyote Springs	20-Feb-06	QN	0.00005	0.0002	0.002	0.002	n		075732-010	SW846 7470
Eubank-1	14-Feb-06	QN	0.00005	0.0002	0.002	0.002	n		075723-010	SW846 7470
EOD Hill	13-Mar-06	QN	0.00005	0.0002	0.002	0.002	n	B3, UJ	075759-010	SW846 7470
Greystone-MW2	24-Feb-06	QN	0.00005	0.0002	0.002	0.002	n		075740-010	SW846 7470
MRN-2	07-Mar-06	QN	0.00005	0.0002	0.002	0.002	n	B3, UJ	075754-010	SW846 7470
MRN-2 (Duplicate)	07-Mar-06	QN	0.00005	0.0002	0.002	0.002	n	B3, UJ	075755-010	SW846 7470
MRN-3D	08-Mar-06	QN	0.00005	0.0002	0.002	0.002	n		075757-010	SW846 7470
NWTA3-MW2	21-Feb-06	QN	0.00005	0.0002	0.002	0.002	n		075734-010	SW846 7470
NWTA3-MW3D	22-Feb-06	QN	0.00005	0.0002	0.002	0.002	n		075736-010	SW846 7470
PL-2	03-Mar-06	QN	0.00005	0.0002	0.002	0.002	n	B3, UJ	075748-010	SW846 7470
PL-3	06-Mar-06	QN	0.00005	0.0002	0.002	0.002	n	B3, UJ	075750-010	SW846 7470
SFR-2S	23-Feb-06	QN	0.00005	0.0002	0.002	0.002	n		075730-010	SW846 7470
SFR-4T	16-Feb-06	QN	0.00005	0.0002	0.002	0.002	n		075727-010	SW846 7470
SFR-4T (Duplicate)	16-Feb-06	QN	0.00005	0.0002	0.002	0.002	n		075728-010	SW846 7470
SWTA3-MW2	27-Feb-06	QN	0.00005	0.0002	0.002	0.002	n		075742-010	SW846 7470
SWTA3-MW3	28-Feb-06	QN	0.00005	0.0002	0.002	0.002	n	B3, UJ	075744-010	SW846 7470
SWTA3-MW4	01-Mar-06	QN	0.00005	0.0002	0.002	0.002	n	B3, UJ	075746-010	SW846 7470
TRE-1	15-Feb-06	QN	0.00005	0.0002	0.002	0.002	n		075725-010	SW846 7470
Refer to footnotes on page 43.										

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Table GWPP A-7
Summary of Gamma-Emitting Radionuclides/Short List
Groundwater Protection Program Groundwater Surveillance Task

9.09±9.12   15.4   7.51   NE	Well ID	Analyte	Activity <sup>a</sup> (pCi/L)	MDA <sup>b</sup> (pCi/L)	Critical Level <sup>c</sup> (pCi/L)	MCL/ MAC <sup>d</sup> (pCi/L)	MAC <sup>d</sup>	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
0.840 ± 1.81         3.25         1.56         NE         NE         U           0.283 ± 2.28         3.43         1.61         NE         NE         U           4.91 ± 69.1         20.6         1.00         NE         NE         U           4.91 ± 69.1         20.6         1.00         NE         U         NE           1         4.91 ± 69.1         3.15         1.60         NE         U         NE           0.0786 ± 1.80         3.15         1.60         NE         NE         U         NE           1.6.3 ± 9.07         14.9         7.28         NE         NE         U         NE           0.0744 ± 1.96         3.38         1.52         NE         NE         U         NE           0.0744 ± 1.96         3.39         1.58         NE         NE         U         NE           0.075 ± 2.06         3.00         1.47         NE         NE         U         NE           1.08 ± 1.66         3.37         1.58         NE         NE         U         NE           1.08 ± 1.69         3.33         1.56         NE         NE         U         NE           1.08 ± 1.60         3.37		Americium-241	-9.09 ± 9.12	15.4	7.51	NE	NE	Π		075732-033	EPA 901.0
0.0283±2.28         3.43         1.61         NE         NE         U           1.0283±2.28         3.43         1.61         NE         NE         U           1.0283±1.80         3.16         1.50         NE         NE         U           0.0758±1.80         3.16         1.50         NE         NE         U           0.0718±1.89         3.50         1.64         NE         NE         U           0.075±1.95         3.28         1.52         NE         NE         U           0.075±1.95         3.38         1.59         NE         NE         U           0.075±1.95         3.38         1.59         NE         NE         U           0.075±1.96         3.00         1.43         NE         NE         U           0.075±1.96         3.38         1.59         NE         NE         U           1.03±1.66         3.00         1.43         NE         U         NE           1.03±1.68         3.00         1.43         NE         U         NE           1.03±1.68         3.33         1.56         NE         NE         U           1.03±1.89         3.32         1.52	Coyote Springs	Cesium-137	0.840 ± 1.81	3.25	1.56	NE	NE	Π		075732-033	EPA 901.0
4.91±56.1         32.2         15.1         NE         NE         U           0.0758±12.8         20.6         10.0         NE         NE         U           0.0758±18.90         3.50         1.64         NE         NE         U           0.811±18.90         3.50         1.64         NE         NE         U           0.75±18.90         3.28         1.52         NE         NE         U           0.75±1.96         3.38         1.52         NE         NE         U           0.75±1.96         3.38         1.52         NE         NE         U           0.75±1.96         3.38         1.52         NE         NE         U           1.03±1.80         3.37         1.58         NE         NE         U           1.08±1.80         3.37         1.58         NE         NE         U           1.08±1.80         3.37         1.56         NE         NE         U           0.075±2.40         80.6         2.3.8         NE         NE         U           1.03±1.80         3.37         1.58         NE         NE         U           0.175±2.20         3.38         1.72         NE </td <td>20-Feb-06</td> <td>Cobalt-60</td> <td>-0.283 ± 2.28</td> <td>3.43</td> <td>1.61</td> <td>NE</td> <td>NE</td> <td>n</td> <td></td> <td>075732-033</td> <td>EPA 901.0</td>	20-Feb-06	Cobalt-60	-0.283 ± 2.28	3.43	1.61	NE	NE	n		075732-033	EPA 901.0
1         4,76±128         20.6         10.0         NE         N           0.0758±18         3.15         1.50         NE         U           0.0758±18         3.51         1.50         NE         U           0.044±18         3.50         1.64         NE         U           0.444±1.78         3.18         1.52         NE         U           0.05±24.6         80.6         23.8         NE         U           0.07±24.9         3.30         1.43         NE         U           1.03±1.66         3.00         1.43         NE         U           1.03±3.99         33.3         1.56         NE         U           1.08±1.80         3.3         1.58         NE         U           1.08±1.80         3.3         1.56         NE         U           1.08±1.80         3.3         1.56         NE         U           1.08±1.80         3.2         1.72         NE         U           1.08±1.80         3.2         1.52         NE         U           1.08±1.80         3.2         1.52         NE         U           1.06±2.20         3.2         1.52         NE <td></td> <td>Potassium-40</td> <td><math>4.91 \pm 59.1</math></td> <td>32.2</td> <td>15.1</td> <td>NE</td> <td>NE</td> <td>n</td> <td></td> <td>075732-033</td> <td>EPA 901.0</td>		Potassium-40	$4.91 \pm 59.1$	32.2	15.1	NE	NE	n		075732-033	EPA 901.0
0.0758±180         315         150         NE         N           0.811±1.89         3.50         1.64         NE         U           4.73±9.67         14.39         7.28         NE         NE         U           1.63±9.07         14.39         7.28         NE         NE         U           0.75±1.95         3.38         1.59         NE         U           1.03±1.66         3.00         1.43         NE         U           1.08±1.80         3.37         1.58         NE         U           1.08±1.80         3.37         1.75         NE         U           0.176±2.60         4.41         2.12         NE         U           0.16±2.64         4.41		Americium-241	-4.76 ± 12.8	20.6	10.0	NE	NE	n		075723-033	EPA 901.0
0811±189         3.50         1.64         NE         NE         U           4.77±36.5         32.8         1.62         NE         NE         U           1.63±0.7         3.18         1.52         NE         NE         U           0.44±1.78         3.18         1.59         NE         NE         U           0.04±1.78         3.38         1.59         NE         NE         U           0.05±24.6         80.6         23.8         NE         NE         U           1.03±1.6         3.30         1.43         NE         NE         U           1.03±1.6         3.37         1.58         NE         NE         U           1.03±1.0         3.7         1.58         NE         NE         U           1.03±1.0         1.72         NE         NE         U           0.0757±2.0         3.58         1.72         NE         NE         U           0.0762±4.13         5.18         2.54         NE         NE         U           0.166±2.6         4.41         2.12         NE         NE         U           1.5±2.5.51         4.68         2.20         NE         NE	Eubank-1	Cesium-137	0.0758 ± 1.80	3.15	1.50	NE	NE	n		075723-033	EPA 901.0
177 ± 36.5         32.8         15.2         NE         NE         U           1-15.3 ± 9.07         14.9         7.28         NE         NE         U           10.74 ± 1.76         3.38         1.59         NE         NE         U           10.75 ± 1.66         3.38         1.59         NE         NE         U           10.3 ± 1.66         3.00         1.43         NE         NE         U           1.03 ± 1.66         3.00         1.43         NE         NE         U           1.04 ± 1.80         3.3         1.56         NE         NE         U           1.05 ± 2.03         3.5         1.72         NE         NE         U           1.04 ± 4.13         2.12         NE         NE         U           1.65 ± 2.51         4.41         2.12         NE         NE         U           1.66 ± 2.56         4.41         2.12         NE	14-Feb-06	Cobalt-60	0.811 ± 1.89	3.50	1.64	NE	NE	n		075723-033	EPA 901.0
1.15.3 ± 9.07		Potassium-40	4.77 ± 36.5	32.8	15.2	NE	NE	Π		075723-033	EPA 901.0
0.444 ± 1.78         3.18         1.52         NE         NE         U           -0.75 ± 1.95         3.38         1.59         NE         N         U           -0.75 ± 1.95         3.38         1.59         NE         N         U           1.03 ± 1.66         3.00         1.43         NE         N         U           1.03 ± 1.66         3.00         1.43         NE         N         U           1.08 ± 1.80         3.37         1.58         NE         N         U           1.08 ± 1.80         3.37         1.58         NE         U         U           1.08 ± 1.80         3.33         1.56         NE         U         U           1.08 ± 1.03         1.72         NE         NE         U         U           0.0757 ± 2.02         3.58         1.72         NE         NE         U           0.0757 ± 2.02         3.58         1.52         NE         NE         U           0.048 ± 3.79         1.53         NE         NE         U         NE           0.046 ± 2.56         4.41         2.12         NE         NE         U           0.166 ± 2.56         4.41         2.12		Americium-241	-15.3 ± 9.07	14.9	7.28	NE	NE	n		075759-033	EPA 901.0
1.59   NE   NE   NE   NE   NE   NE   NE   N	EOD Hill	Cesium-137	0.444 ± 1.78	3.18	1.52	NE	NE	n		075759-033	EPA 901.0
80.5 ± 24.6         80.6         23.8         NE         NE         U           1.03 ± 1.66         3.30         1.43         NE         NE         U           1.03 ± 1.66         3.30         1.43         NE         NE         U           7.53 ± 39.9         3.37         1.58         NE         U         NE           1.03 ± 1.02         3.53         1.56         NE         U         NE         U           1.03 ± 4.03         3.73         1.75         NE         NE         U         NE         U           0.0757 ± 2.02         3.58         1.72         NE         NE         U         NE         U           0.0757 ± 2.02         3.58         1.72         NE         NE         U         NE         U           0.0757 ± 2.02         3.58         1.52         NE         NE         U         NE         U           0.0757 ± 2.02         3.58         1.52         NE         NE         U         NE         NE         U         NE         <	13-Mar-06	Cobalt-60	$-0.75 \pm 1.95$	3.38	1.59	NE	NE	n		075759-033	EPA 901.0
1 3.07 ± 7.98 13.3 6.47 NE NE U U   1.03 ± 1.66 3.00 14.3 NE NE NE U U   1.08 ± 1.80 3.37 1.58 NE NE U U   1.08 ± 1.80 3.37 1.58 NE NE U U   1.08 ± 1.0.3 1.72 8.41 NE NE U   1.0.0757 ± 2.02 3.58 1.75 NE NE U   1.0.482 ± 4.13 5.18 2.54 NE NE U   1.0.6 ± 2.51 4.68 2.20 NE NE U   1.52 ± 2.51 4.68 2.20 NE NE U   1.52 ± 2.51 4.68 2.20 NE NE U   1.52 ± 2.51 4.68 0.20 NE NE U   1.52 ± 2.51 1.53 NE NE NE U    1.52 ± 2.51 1.53 NE NE NE U    1.52 ± 2.51 1.53 NE NE NE U    1.52 ± 2.51 1.53 NE NE NE U    1.52 ± 2.51 1.53 NE NE NE U    1.52 ± 2.51 1.53 NE NE NE U    1.52 ± 2.51 1.53 NE NE NE U     1.52 ± 2.51 1.53 NE NE NE U     1.52 ± 2.51 1.53 NE NE NE U     1.53 ± 49.4 31.3 1.47 NE NE NE U     1.54 ± 2.50 1.56 NE NE NE U     1.55 ± 2.51 1.56 NE NE NE U      1.55 ± 2.51 1.56 NE NE U		Potassium-40	80.5 ± 24.6	9.08	23.8	NE	NE	n		075759-033	EPA 901.0
1.03 ± 1.66         3.00         1.43         NE         NE         U           1.08 ± 1.80         3.37         1.58         NE         NE         U           7.53 ± 39.9         3.3.3         15.6         NE         NE         U           1.08 ± 1.80         3.3.3         15.6         NE         U           0.0757 ± 2.02         3.58         1.72         NE         NE         U           0.0757 ± 2.07         3.73         1.75         NE         NE         U           23.3 ± 49.8         3.28         1.75         NE         NE         U           1.62 ± 2.61         4.68         2.20         NE         NE         U           1.52 ± 2.51         4.68         2.20         NE         NE         U           1.52 ± 2.51         4.68         2.20         NE         NE         U           60.1 ± 53.9         37.2         17.2         NE         NE         U           1.52 ± 2.51         4.68         2.20         NE         NE         U           1.52 ± 2.51         4.68         2.20         NE         NE         U           1.152 ± 1.83         3.10         1.49		Americium-241	3.07 ± 7.98	13.3	6.47	NE	NE	n		075740-033	EPA 901.0
1.08 ± 1.80         3.37         1.58         NE         NE         U           7.53 ± 39.9         33.3         15.6         NE         U         N           1.63 ± 10.3         17.2         841         NE         U         N           0.0757 ± 2.02         3.58         1.72         NE         U         N           0.0787 ± 2.02         3.73         1.75         NE         U         N           0.0787 ± 2.07         3.73         1.75         NE         U         N           0.0482 ± 4.13         5.18         2.54         NE         U         N           1.52 ± 2.14         4.68         2.20         NE         N         U         N           0.0166 ± 2.56         4.41         2.12         NE         N         U         N           1.52 ± 2.14         4.68         2.20         NE         N         U         N           0.15 ± 1.83         3.72         1.72         NE         N         U         N           1.15 ± 1.83         3.10         1.49         NE         N         U         N           1.0.1 ± 49.4         31.3         1.47         NE         N         U <td>Greystone-MW2</td> <td>Cesium-137</td> <td>1.03 ± 1.66</td> <td>3.00</td> <td>1.43</td> <td>NE</td> <td>NE</td> <td>Π</td> <td></td> <td>075740-033</td> <td>EPA 901.0</td>	Greystone-MW2	Cesium-137	1.03 ± 1.66	3.00	1.43	NE	NE	Π		075740-033	EPA 901.0
7.53 ± 39.9       33.3       15.6       NE       NE       U         4.93 ± 10.3       17.2       8.41       NE       NE       U         0.0757 ± 2.02       3.58       1.72       NE       NE       U         -0.178 ± 2.07       3.73       1.75       NE       NE       U         1.642 ± 4.13       5.18       2.54       NE       U       NE         1.66 ± 2.56       4.41       2.12       NE       NE       U         1.66 ± 2.56       4.41       2.12       NE       NE       U         1.52 ± 2.51       4.68       2.20       NE       NE       U         1.52 ± 2.51       4.68       2.72       NE       NE       U         1.15 ± 1.83       3.10       1.49       NE       U       NE         1.16 ± 1.88       2.72       1.29       NE       NE       U         1.16 ± 1.88       2.72       1.29       <	24-Feb-06	Cobalt-60	1.08 ± 1.80	3.37	1.58	NE	NE	Π		075740-033	EPA 901.0
1         4.93±10.3         17.2         8.41         NE         NE         U           0.0757±2.02         3.58         1.72         NE         NE         U           0.0757±2.02         3.58         1.75         NE         U           0.0757±2.02         3.73         1.75         NE         U           1.0.482±4.13         5.18         2.54         NE         U           1.0.482±4.13         5.18         2.54         NE         U           1.0.465±2.56         4.41         2.12         NE         U           1.52±2.51         4.68         2.20         NE         N           1.52±2.51         4.68         2.20         NE         N           60.1±53.9         37.2         17.2         NE         N           1.52±2.51         4.68         2.20         NE         N           0.080±1.89         3.32         1.49         NE         N           1.0.1±49.4         31.3         1.47         NE         N           1.16±1.88         2.72         1.29         NE         N           1.16±1.89         2.72         1.29         NE         N           1.15±1.80 <td></td> <td>Potassium-40</td> <td>7.53 ± 39.9</td> <td>33.3</td> <td>15.6</td> <td>NE</td> <td>NE</td> <td>n</td> <td></td> <td>075740-033</td> <td>EPA 901.0</td>		Potassium-40	7.53 ± 39.9	33.3	15.6	NE	NE	n		075740-033	EPA 901.0
0.0757±2.02       3.58       1.72       NE       NE       U         -0.178±2.07       3.73       1.75       NE       NE       U         23.3±49.8       32.8       15.2       NE       NE       U         10.482±4.13       5.18       2.54       NE       NE       U         -0.166±2.56       4.41       2.12       NE       NE       U         1.52±2.51       4.68       2.20       NE       NE       U         60.1±53.9       37.2       17.2       NE       NE       U         1.52±2.51       4.68       2.20       NE       NE       U         1.01±53.9       37.2       17.2       NE       NE       U         1.15±1.83       3.10       1.49       NE       NE       U         1.01±49.4       31.3       1.59       NE       NE       U         1.16±1.88       2.72       1.29       NE       NE       U         1.16±1.89       3.55       1.66       NE       NE       U         1.16±1.89       3.55       1.66       NE       U       P         1.16±1.89       3.55       1.66       NE       U		Americium-241	$4.93 \pm 10.3$	17.2	8.41	NE	NE	n		075754-033	EPA 901.0
-0.178±2.07       3.73       1.75       NE       NE       U         23.3±49.8       32.8       15.2       NE       NE       U         -0.482±4.13       5.18       2.54       NE       NE       U         -0.166±2.56       4.41       2.12       NE       U         1.52±2.51       4.68       2.20       NE       NE       U         60.1±53.9       37.2       17.2       NE       NE       U         1.5±1.83       3.10       1.49       NE       NE       U         -1.5±1.83       3.10       1.49       NE       NE       U         10.680±1.89       3.38       1.59       NE       NE       U         10.1±49.4       31.3       14.7       NE       NE       U         10.1±49.4       31.3       1.66       NE       NE       U         1.16±1.88       2.72       1.29       NE       NE       U         1.16±1.8       2.72       1.66       NE       NE       U         54.8±22.0       54.9       21.7       NE       U       P1.0U         1.17±9.18       1.36       1.37       NE       U       NE <td>MRN-2</td> <td>Cesium-137</td> <td><math>0.0757 \pm 2.02</math></td> <td>3.58</td> <td>1.72</td> <td>NE</td> <td>NE</td> <td>n</td> <td></td> <td>075754-033</td> <td>EPA 901.0</td>	MRN-2	Cesium-137	$0.0757 \pm 2.02$	3.58	1.72	NE	NE	n		075754-033	EPA 901.0
23.3 ± 49.8       32.8       15.2       NE       NE       U         -0.482 ± 4.13       5.18       2.54       NE       NE       U         -0.166 ± 2.56       4.41       2.12       NE       NE       U         1.52 ± 2.51       4.68       2.20       NE       NE       U         60.1 ± 53.9       37.2       17.2       NE       NE       U         1.5 ± 1.83       3.10       1.49       NE       NE       U         1.5 ± 1.83       3.10       1.49       NE       NE       U         1.0.1 ± 49.4       31.3       14.7       NE       NE       U         1.16 ± 1.88       2.72       1.29       NE       NE       U         1.16 ± 1.88       2.72       1.66       NE       NE       U         54.8 ± 22.0       54.9       21.7       NE       U       P1, UJ         1.17 ± 9.18       13.6       6.63       NE       U       P1, UJ         1.014 ± 1.63       2.85       1.37       NE       U       NF       U	07-Mar-06	Cobalt-60	-0.178 ± 2.07	3.73	1.75	NE	NE	n		075754-033	EPA 901.0
1 -0.482 ± 4.13 5.18 2.54 NE NE NE U OU O		Potassium-40	23.3 ± 49.8	32.8	15.2	NE	NE	D		075754-033	EPA 901.0
-0.166 ± 2.56       4.41       2.12       NE       NE       U         1.52 ± 2.51       4.68       2.20       NE       NE       U         60.1 ± 53.9       37.2       17.2       NE       NE       U         1.5 ± 1.83       3.10       1.49       NE       NE       U         1.5 ± 1.83       3.10       1.49       NE       NE       U         0.680 ± 1.89       3.38       1.59       NE       NE       U         10.1 ± 49.4       31.3       14.7       NE       NE       U         1.16 ± 1.88       2.72       1.29       NE       NE       U         1.16 ± 1.88       2.72       1.66       NE       NE       U         54.8 ± 22.0       54.9       21.7       NE       NE       U         1.17 ± 9.18       13.6       6.63       NE       NE       U         1.016 ± 1.63       2.85       1.37       NE       NE       U         1.0202 ± 1.67       2.99       1.41       NF       U	CINOM	Americium-241	-0.482 ± 4.13	5.18	2.54	ŊŖ	NE	D		075755-033	EPA 901.0
1.52 ± 2.51     4.68     2.20     NE     NE     U       60.1 ± 53.9     37.2     17.2     NE     NE     N       1.5 ± 1.83     3.10     1.49     NE     NE     U       0.680 ± 1.89     3.38     1.59     NE     NE     U       10.1 ± 49.4     31.3     14.7     NE     NE     U       1.65 ± 1.80     2.72     1.29     NE     NE     U       1.16 ± 1.88     2.72     1.66     NE     NE     U       54.8 ± 22.0     54.9     21.7     NE     NE     U       1.17 ± 9.18     13.6     6.63     NE     NE     U       1.016 ± 1.63     2.85     1.37     NE     NE     U       1.017 ± 4.163     2.85     1.37     NE     NE     U	MIRIN-Z	Cesium-137	$-0.166 \pm 2.56$	4.41	2.12	NE	NE	n		075755-033	EPA 901.0
60.1 ± 53.9         37.2         17.2         NE         NE         NE         U           2.08 ± 9.79         15.3         7.49         NE         NE         U           -1.5 ± 1.83         3.10         1.49         NE         NE         U           0.680 ± 1.89         3.38         1.59         NE         U           10.1 ± 49.4         31.3         14.7         NE         U           1         -2.22 ± 7.77         13.7         6.68         NE         NE         U           1.16 ± 1.88         2.72         1.29         NE         NE         U         P1, UJ           1.85 ± 1.80         3.55         1.66         NE         NE         U         P1, UJ           1.17 ± 9.18         13.6         6.63         NE         NE         U         P1, UJ           1.016 ± 1.63         2.85         1.37         NE         NE         U         P1, UJ           0.070 + 1.67         2.99         1.41         NF         NF         U         NF         U	(Duplicate) 07-Mar-06	Cobalt-60	$1.52 \pm 2.51$	4.68	2.20	NE	NE	Π		075755-033	EPA 901.0
1 2.08 ± 9.79 15.3 7.49 NE NE U U C 680 ± 1.83 3.10 1.49 NE NE U U U U U U U U U U U U U U U U U		Potassium-40	$60.1 \pm 53.9$	37.2	17.2	N	ŊĘ	×	n	075755-033	EPA 901.0
-1.5 ± 1.83     3.10     1.49     NE     NE     U       0.680 ± 1.89     3.38     1.59     NE     NE     U       10.1 ± 49.4     31.3     14.7     NE     NE     U       1     -2.22 ± 7.77     13.7     6.68     NE     NE     U       1.16 ± 1.88     2.72     1.29     NE     NE     U       1.85 ± 1.80     3.55     1.66     NE     NE     U       54.8 ± 22.0     54.9     21.7     NE     NE     U       1.17 ± 9.18     13.6     6.63     NE     NE     U       0.070 + 1.67     2.99     1.41     NF     NF     U		Americium-241	2.08 ± 9.79	15.3	7.49	Ŋ	IJ.	D		075757-033	EPA 901.0
0.680 ± 1.89     3.38     1.59     NE     NE     U       10.1 ± 49.4     31.3     14.7     NE     NE     U       11.6 ± 1.88     2.72     1.29     NE     NE     U       1.85 ± 1.80     3.55     1.66     NE     NE     U       54.8 ± 22.0     54.9     21.7     NE     NE     U       1.1.7 ± 9.18     13.6     6.63     NE     NE     U       0.070 + 1.67     2.99     1.41     NF     NF     U	MRN-3D	Cesium-137	-1.5 ± 1.83	3.10	1.49	N	NE NE	D		075757-033	EPA 901.0
10.1 ± 49.4 31.3 14.7 NE NE U  -2.22 ± 7.77 13.7 6.68 NE NE U  1.16 ± 1.88 2.72 1.29 NE NE U  1.85 ± 1.80 3.55 1.66 NE NE U  54.8 ± 22.0 54.9 21.7 NE NE U  -11.7 ± 9.18 13.6 6.63 NE NE U  -0.164 ± 1.63 2.85 1.37 NE NE U  0.202 ± 167 2.99 14.1 NF NF UI	08-Mar-06	Cobalt-60	0.680 ± 1.89	3.38	1.59	ЫN	IJ.	D		075757-033	EPA 901.0
1.16 ± 1.88		Potassium-40	10.1 ± 49.4	31.3	14.7	ЫN	IJ	⊃		075757-033	EPA 901.0
1.16 ± 1.88 2.72 1.29 NE NE U 1.85 ± 1.80 3.55 1.66 NE NE U 54.8 ± 22.0 54.9 21.7 NE NE U 1.1.7 ± 9.18 13.6 6.63 NE NE U 1.0.164 ± 1.63 2.85 1.37 NE NE U 0.202 ± 1.67 2.99 1.41 NF NF U		Americium-241	-2.22 ± 7.77	13.7	89.9	NE	NE	n		075734-033	EPA 901.0
1.85 ± 1.80 3.55 1.66 NE NE U P1, UJ	NWTA3-MW2	Cesium-137	1.16 ± 1.88	2.72	1.29	NE	NE	D		075734-033	EPA 901.0
54.8 ± 22.0     54.9     21.7     NE     NE     U     P1, UJ       1     -11.7 ± 9.18     13.6     6.63     NE     NE     U       -0.164 ± 1.63     2.85     1.37     NE     NE     U       0.202 ± 1.67     2.99     1.41     NF     NF     U	21-Feb-06	Cobalt-60	1.85 ± 1.80	3.55	1.66	NE	NE	n		075734-033	EPA 901.0
1 -11.7 ± 9.18 13.6 6.63 NE NE U -0.164 ± 1.63 2.85 1.37 NE NE U O 0 202 + 1.67 2.99 1.41 NF NF U		Potassium-40	54.8 ± 22.0	54.9	21.7	N	NE NE	D	P1, UJ	075734-033	EPA 901.0
-0.164±1.63 2.85 1.37 NE NE U		Americium-241	-11.7 ± 9.18	13.6	6.63	ЫN	IJ.	D		075736-033	EPA 901.0
0.202+1.67	NWTA3-MW3D	Cesium-137	$-0.164 \pm 1.63$	2.85	1.37	ЫN	IJ.	D		075736-033	EPA 901.0
0.52	22-Feb-06	Cobalt-60	$0.202 \pm 1.67$	2.99	1.41	N H	N H	D		075736-033	EPA 901.0
Potassium-40		Potassium-40	$67.2 \pm 21.4$	67.2	20.4	N	Ŋ	D	P1, UJ	075736-033	EPA 901.0

Summary of Detected Gamma-Emitting Radionuclides Exceeding the MDA (EPA Method<sup>g</sup> 901.0) Groundwater Protection Program Groundwater Surveillance Task Table GWPP A-7 (Concluded)

Well ID	Analyte	Activity <sup>a</sup> (pCi/L)	MDA <sup>b</sup> (pCi/L)	Critical Level <sup>c</sup> (pCi/L)	MCL/ MAC <sup>d</sup> (pCi/L)	MAC <sup>d</sup>	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
PL-2	Americium-241	11.5±11.9	14.3	, 26.9	NE	빙	n		075748-033	EPA 901.0
03-Mar-06	Cesium-137	-0.095 ± 1.73	3.05	1.45	NE	NE	n		075748-033	EPA 901.0
	Cobalt-60	-0.45 ± 1.96	3.51	1.64	NE	NE	n		075748-033	EPA 901.0
	Potassium-40	52.6 ± 23.2	52.6	22.4	NE	NE	n	P1, UJ	075748-033	EPA 901.0
PL-3	Americium-241	13.0 ± 11.5	19.5	9.50	NE	NE	N		075750-033	EPA 901.0
06-Mar-06	Cesium-137	-0.00684 ± 1.65	2.87	1.37	NE	NE	n		075750-033	EPA 901.0
	Cobalt-60	1.12 ± 1.67	3.15	1.47	NE	NE	n		075750-033	EPA 901.0
	Potassium-40	55.4 ± 21.4	55.4	20.7	NE	NE	n	P1, UJ	075750-033	EPA 901.0
SFR-2S	Americium-241	4.28 ± 12.4	20.6	10.0	Ŋ	빙	n		075730-033	EPA 901.0
23-Feb-06	Cesium-137	-0.322 ± 1.79	3.09	1.47	NE	NE	n		075730-033	EPA 901.0
	Cobalt-60	1.56 ± 1.92	3.65	1.71	NE	NE	n		075730-033	EPA 901.0
	Potassium-40	10.1 ± 48.3	30.9	14.3	Ŋ	빙	n		075730-033	EPA 901.0
SFR-4T	Americium-241	2.18 ± 3.35	5.40	2.64	Ŋ	빙	n		075727-033	EPA 901.0
16-Feb-06	Cesium-137	1.06 ± 2.52	4.44	2.14	NE	Ŋ	n		075727-033	EPA 901.0
	Cobalt-60	-1.16 ± 2.62	4.52	2.12	NE	NE	n		075727-033	EPA 901.0
	Potassium-40	39.2 ± 27.9	41.7	19.5	NE	NE	n		075727-033	EPA 901.0
SFR-4T	Americium-241	3.20 ± 10.7	17.8	8.71	NE	NE	n		075728-033	EPA 901.0
(Duplicate)	Cesium-137	0.758 ± 1.97	3.55	1.70	NE	NE	n		075728-033	EPA 901.0
16-Feb-06	Cobalt-60	-0.491 ± 1.92	3.43	1.59	NE	Ŋ	n		075728-033	EPA 901.0
	Potassium-40	$15.4 \pm 50.8$	33.9	15.8	NE	N	n		075728-033	EPA 901.0
SWTA3-MW2	Americium-241	1.17 ± 3.08	5.46	2.68	NE	NE	n		075742-033	EPA 901.0
27-Feb-06	Cesium-137	0.577 ± 2.48	4.34	2.09	NE NE	빙	n		075742-033	EPA 901.0
	Cobalt-60	-0.531 ± 2.42	4.25	1.99	NE	NE	n		075742-033	EPA 901.0
	Potassium-40	40.7 ± 34.6	48.5	22.9	NE	NE	n		075742-033	EPA 901.0
SWTA3-MW3	Americium-241	4.78±13.4	14.0	7.02	Ŋ	뵘	D		075744-033	EPA 901.0
28-Feb-06	Cesium-137	$0.879 \pm 2.23$	3.64	1.82	Ŋ	Ŋ	Π		075744-033	EPA 901.0
	Cobalt-60	-2.94 ± 2.40	3.51	1.76	NE	Ŋ	n		075744-033	EPA 901.0
	Potassium-40	$20.2 \pm 56.3$	38.2	19.1	NE	NE	n		075744-033	EPA 901.0
SWTA3-MW4	Americium-241	8.66 ± 10.3	15.7	7.84	NE	NE	n		075746-033	EPA 901.0
01-Mar-06	Cesium-137	-1.22 ± 2.08	3.31	1.66	NE	NE	n		075746-033	EPA 901.0
	Cobalt-60	1.18 ± 2.46	4.26	2.13	NE	NE	n		075746-033	EPA 901.0
	Potassium-40	31.5±41.8	35.1	17.6	NE	NE	U		075746-033	EPA 901.0
TRE-1	Americium-241	-6.11 ± 7.79	13.6	6.59	NE	Ŋ	n		075725-033	EPA 901.0
15-Feb-06	Cesium-137	1.28 ± 1.75	3.22	1.54	NE	묑	n		075725-033	EPA 901.0
	Cobalt-60	0.788 ± 1.90	3.58	1.68	NE	NE	N		075725-033	EPA 901.0
Potassium-40	Potassium-40	61.4 ± 23.6	61.5	23.2	NE	NE	n	n	075725-033	EPA 901.0
Refer to tootnotes on p	age 43.									

# Table GWPP A-8 Summary of Radioisotopic Results Groundwater Protection Program Groundwater Surveillance Task

### Fiscal Year 2006

Analytical Method <sup>g</sup>	EPA 900.0	EPA 900.0	DOE HASL300 U-02 Mod	DOE HASL300 U-02 Mod	DOE HASL300 U-02 Mod	EPA 903.1	EPA 904.0	EPA 900.0	EPA 900.0	DOE HASL300 U-02 Mod	DOE HASL300 U-02 Mod	DOE HASL300 U-02 Mod	EPA 903.1	EPA 904.0	EPA 900.0	EPA 900.0	DOE HASL300 U-02 Mod	DOE HASL300 U-02 Mod	DOE HASL300 U-02 Mod	EPA 903.1	EPA 904.0	EPA 900.0	EPA 900.0	EPA 900.0	EPA 900.0	EPA 900.0	EPA 900.0	EPA 900.0	EPA 900.0	DOE HASL300 U-02 Mod	DOE HASL300 U-02 Mod	DOE HASL300 U-02 Mod	EPA 903.1	EPA 904.0
Analyt	Ш	Ш	DOE HA	DOE HA	DOE HA	Ш	Ш	Ш	Ш	DOE HA	DOE HA	DOE HA	Ш	Ш	Ш	В	DOE HA	DOE HA	DOE HA	Ш	Ш	Ш	Ш	В	Ш	Ш	Ш	Ш	Ш	DOE HA	DOE HA	DOE HA	Ш	
Sample No.	075732-034	075732-034	075732-035	075732-035	075732-035	075732-038	075732-039	075723-034	075723-034	075723-035	075723-035	075723-035	075723-038	075723-039	075759-034	075759-034	075759-035	075759-035	075759-035	075759-038	075759-039	075740-034	075740-034	075740-R33	075740-R33	075740-R34A	075740-R34A	075740-R34B	075740-R34B	075740-035	075740-035	075740-035	075740-038	075740-039
Validation Qualifier <sup>f</sup>				J, P1														J, P1						A2, J		A2, J		A2, J			J, P1			
Laboratory Qualifier							Π						Π	Ω																			Ω	Ω
AC <sup>d</sup> L)	뮏	뵘	5 mg/L	5 mg/L	5 mg/L	30	30	밀	뮏	5 mg/L	5 mg/L	5 mg/L	30	30	뮏	NE	5 mg/L	5 mg/L	5 mg/L	30	30	뵘	NE	NE	뵘	Ŋ	NE	N	뵘	5 mg/L	5 mg/L	5 mg/L	30	30
MCL/ MACd (pCi/L)	15	4mrem/yr	0.03 mg/L	0.03 mg/L	0.03 mg/L	5	5	15	4mrem/yr	0.03 mg/L	0.03 mg/L	0.03 mg/L	5	5	15	4mrem/yr	0.03 mg/L	0.03 mg/L	0.03 mg/L	2	5	15	4mrem/yr	15	4mrem/yr	15	4mrem/yr	15	4mrem/yr	0.03 mg/L	0.03 mg/L	0.03 mg/L	2	2
Critical Level <sup>c</sup> (pCi/L)	2.14	6.55	0.0281	0.0213	0.0222	0.155	0.415	0.598	1.35	0.0635	0.0264	0.033	0.266	0.310	5.63	12.0	0.155	0.0642	0.0804	0.289	0.487	1.62	2.57	0.106	1.59	0.210	1.64	0.0625	1.82	0.0172	0.0106	0.0105	0.332	0.493
MDA <sup>b</sup> (pCi/L)	4.96	13.5	0.136	0.0661	0.0764	0.383	0.926	1.34	2.78	0.139	0.0672	0.0778	0.648	0.697	12.5	24.6	0.272	0.136	0.155	0.716	1.10	3.55	5.29	0.243	3.28	0.452	3.37	0.156	3.72	0.0831	0.0403	0.0466	0.801	1.10
Activity <sup>a</sup> (pCi/L)	10.7 ± 4.29	36.1 ± 8.95	$10.3 \pm 1.33$	$0.259 \pm 0.0832$	$2.34 \pm 0.350$	$0.516 \pm 0.298$	$0.712 \pm 0.477$	2.85 ± 1.07	2.97 ± 1.71	$2.07 \pm 0.299$	0.0699 ± 0.0388	$0.953 \pm 0.166$	$0.302 \pm 0.388$	$0.212 \pm 0.309$	137 ± 19.7	$54.2 \pm 16.1$	99.1 ± 15.3	$2.62 \pm 0.542$	13.6 ± 2.21	3.35 ± 0.897	$2.75 \pm 0.831$	19.7 ± 3.86	$15.1 \pm 3.62$	$1.12 \pm 0.260$	$8.32 \pm 2.47$	$0.954 \pm 0.307$	8.38 ± 2.39	$1.17 \pm 0.240$	7.71 ± 2.40	10.4 ± 1.06	$0.303 \pm 0.0692$	$2.34 \pm 0.276$	$0.202 \pm 0.443$	$0.381 \pm 0.493$
Analyte	Gross Alpha	Gross Beta	Uranium-233/234	Uranium-235/236	Uranium-238	Radium-226	Radium-228	Gross Alpha	Gross Beta	Uranium-233/234	Uranium-235/236	Uranium-238	Radium-226	Radium-228	Gross Alpha	Gross Beta	Uranium-233/234	Uranium-235/236	Uranium-238	Radium-226	Radium-228	Gross Alpha	Gross Beta	Gross Alpha	Gross Beta	Gross Alpha	Gross Beta	Gross Alpha	Gross Beta	Uranium-233/234	Uranium-235/236	Uranium-238	Radium-226	Radium-228
Well ID				Coyote Springs	0000						Eubank-1	00-00-1-4-1						EOD HIII	10-1vlal-00									Greystone-MW2	Z4-Feb-06					Radium-228

# Table GWPP A-8 Summary of Radioisotopic Results Groundwater Protection Program Groundwater Surveillance Task

<b>4</b>	Analyte	Activity <sup>a</sup> (pCi/L)	MDA <sup>b</sup> (pCi/L)	Critical Level <sup>c</sup> (pCi/L)	MCL/ MAC <sup>d</sup> (pCi/L)	AACd (L)	Laboratory Validation Qualifier <sup>e</sup> Qualifier <sup>f</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
Gross Alpha Gross Beta		3.18 ± 1.26 4.09 ± 1.08	1.51	0.786	15 4mrem/vr	쀨쀨			075754-034 075754-034	EPA 900.0 EPA 900.0
Uranium-233/234	3/234	2.95 ± 0.415	0.157	0.0343	0.03 mg/L	5 mg/L			075754-035	DOE HASL300 U-02 Mod
Uranium-235/236	5/236	$0.146 \pm 0.0652$	0.076	0.020	0.03 mg/L	5 mg/L			075754-035	DOE HASL300 U-02 Mod
Uranium-238	88	1.11 ± 0.195	0.0878	0.0256	0.03 mg/L	5 mg/L			075754-035	DOE HASL300 U-02 Mod
Radium-226	9	$0.452 \pm 0.298$	0.374	0.140	5	30			075754-038	EPA 903.1
Radinm-228	28	$0.466 \pm 0.565$	1.23	0.545	5	30	n	M	075754-039	EPA 904.0
<b>Gross Alpha</b>	ha	$3.61 \pm 1.16$	1.50	0.708	15	NE			075755-034	EPA 900.0
Gross Beta	ja	2.98 ± 1.19	1.88	0.916	4mrem/yr	NE			075755-034	EPA 900.0
Uranium-233/234	233/234	3.11 ± 0.411	0.107	0.0339	0.03 mg/L	5 mg/L			075755-035	DOE HASL300 U-02 Mod
Uranium-235/236	235/236	$0.0744 \pm 0.0422$	0.0517	0.0192	0.03 mg/L	5 mg/L			075755-035	DOE HASL300 U-02 Mod
Uranium-238	238	1.11 ± 0.177	0.0598	0.0233	0.03 mg/L	5 mg/L			075755-035	DOE HASL300 U-02 Mod
Radium-226	226	$0.108 \pm 0.273$	0.507	0.205	5	30	⊃		075755-038	EPA 903.1
Radinm-228	228	1.19 ± 0.743	1.40	0.627	5	30	∩	n	075755-039	EPA 904.0
Gross Alpha	pha	3.38 ± 1.32	0.890	0.394	15	빙			075757-034	EPA 900.0
Gross Beta	eta	2.63 ± 1.73	2.84	1.39	4mrem/yr	N	Ω		075757-034	EPA 900.0
Uranium	Jranium-233/234	$2.55 \pm 0.362$	0.151	0.0692	0.03 mg/L	5 mg/L			075757-035	DOE HASL300 U-02 Mod
Uranium	Jranium-235/236	$0.082 \pm 0.0469$	0.0732	0.0287	0.03 mg/L	5 mg/L			075757-035	DOE HASL300 U-02 Mod
Uranium-238	1-238	$1.06 \pm 0.186$	0.0847	0.036	0.03 mg/L	5 mg/L			075757-035	DOE HASL300 U-02 Mod
Radium-226	.226	$0.328 \pm 0.360$	0.578	0.234	2	30	n		075757-038	EPA 903.1
Radium-228	.228	$0.933 \pm 0.478$	0.803	0.351	5	30			075757-039	EPA 904.0
<b>Gross Alpha</b>	Ipha	$5.14 \pm 1.50$	1.96	0.929	15	NE			075734-034	EPA 900.0
<b>Gross Beta</b>	eta	$6.65 \pm 1.77$	2.86	1.38	4mrem/yr	NE			075734-034	EPA 900.0
Uraniun	Jranium-233/234	$2.68 \pm 0.348$	0.0797	0.0201	0.03 mg/L	5 mg/L			075734-035	DOE HASL300 U-02 Mod
Uranium	Jranium-235/236	$0.102 \pm 0.0377$	0.0386	0.00719	0.03 mg/L	5 mg/L		J, P1	075734-035	
Uranium-238	-238	$1.24 \pm 0.180$	0.0447	0.0116	0.03 mg/L	5 mg/L			075734-035	DOE HASL300 U-02 Mod
Radinm-226	226	$2.01 \pm 0.656$	0.650	0.270	2	30			075734-038	EPA 903.1
Radium-228	228	$0.387 \pm 0.370$	0.763	0.335	5	30	U		075734-039	EPA 904.0
<b>Gross Alpha</b>	pha	$3.77 \pm 0.886$	0.968	0.441	15	NE			075736-034	EPA 900.0
Gross Beta	eta	$5.14 \pm 1.36$	2.17	1.04	4mrem/yr	NE			075736-034	EPA 900.0
<b>Uranium</b>	Jranium-233/234	$2.84 \pm 0.327$	0.0861	0.014	0.03 mg/L	5 mg/L			075736-035	DOE HASL300 U-02 Mod
Uranium	Jranium-235/236	$0.133 \pm 0.0453$	0.0417	0.011	0.03 mg/L	5 mg/L		J, P1	075736-035	DOE HASL300 U-02 Mod
Uranium-238	238	$1.41 \pm 0.184$	0.0483	0.0109	0.03 mg/L	5 mg/L			075736-035	DOE HASL300 U-02 Mod
Radinm-226	526	$0.799 \pm 0.462$	0.564	0.219	5	30			075736-038	EPA 903.1
Radium-228	228	$0.689 \pm 0.507$	0.991	0.438	2	30	D		075736-039	EPA 904.0
ı pag	e 35.									

Table GWPP A-8
Summary of Radioisotopic Results
Groundwater Protection Program Groundwater Surveillance Task

Well ID	Analyte	Activity <sup>a</sup> (pCi/L)	MDA <sup>b</sup> (pCi/L)	Critical Level <sup>c</sup> (pCi/L)	MCL/ MAC <sup>d</sup> (pCi/L)	MAC <sup>d</sup> (L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
	Gross Alpha	2.43 ± 1.16	1.52	0.657	15	NE			075748-034	EPA 900.0
	Gross Beta	4.92 ± 1.16	1.69	0.819	4mrem/yr	NE			075748-034	EPA 900.0
c	Uranium-233/234	$2.40 \pm 0.334$	0.151	0.027	0.03 mg/L	5 mg/L			075748-035	DOE HASL300 U-02 Mod
PL-2 03 Mar 06	Uranium-235/236	$0.158 \pm 0.0621$	0.0733	00.0	0.03 mg/L	5 mg/L			075748-035	DOE HASL300 U-02 Mod
03-IVIAI -00	Uranium-238	1.21 ± 0.198	0.0847	0.0156	0.03 mg/L	5 mg/L			075748-035	DOE HASL300 U-02 Mod
	Radium-226	$0.834 \pm 0.541$	0.683	0.298	5	30			075748-038	EPA 903.1
	Radium-228	$0.419 \pm 0.547$	1.21	0.539	5	30	Ω		075748-039	EPA 904.0
	Gross Alpha	$3.70 \pm 1.58$	2.00	0.879	15	NE			075750-034	EPA 900.0
	Gross Beta	$6.50 \pm 1.41$	1.99	0.961	4mrem/yr	NE			075750-034	EPA 900.0
c ā	Uranium-233/234	$2.31 \pm 0.322$	0.113	0.0166	0.03 mg/L	5 mg/L			075750-035	DOE HASL300 U-02 Mod
PL-3	Uranium-235/236	$0.0879 \pm 0.0417$	0.055	0.0102	0.03 mg/L	5 mg/L			075750-035	DOE HASL300 U-02 Mod
00-IVIAI -00	Uranium-238	1.11 ± 0.179	0.0636	0.0203	0.03 mg/L	5 mg/L			075750-035	DOE HASL300 U-02 Mod
	Radium-226	0.301 ± 0.227	0.291	0.123	2	30			075750-038	EPA 903.1
	Radium-228	$0.410 \pm 0.503$	1.10	0.488	2	30	n		075750-039	EPA 904.0
	Gross Alpha	24.6 ± 3.41	2.23	0.989	15	NE			075730-034	EPA 900.0
	Gross Beta	9.83 ± 4.03	6.95	3.35	4mrem/yr	NE			075730-034	EPA 900.0
0000	Uranium-233/234	18.6 ± 1.94	0.105	0.0154	0.03 mg/L	5 mg/L			075730-035	DOE HASL300 U-02 Mod
37 Fob 06	Uranium-235/236	$1.68 \pm 0.236$	0.051	0.0164	0.03 mg/L	5 mg/L	×	Я	075730-035	DOE HASL300 U-02 Mod
22-1 60-00	Uranium-238	$6.10 \pm 0.676$	0.059	0.0133	0.03 mg/L	5 mg/L			075730-035	DOE HASL300 U-02 Mod
	Radium-226	7.49 ± 1.70	1.17	0.464	2	30			075730-038	EPA 903.1
	Radium-228	$0.751 \pm 0.537$	1.07	0.481	5	30	n		075730-039	EPA 904.0
	Gross Alpha	$2.07 \pm 5.32$	9.24	4.14	15	NE	Π		075727-034	EPA 900.0
	Gross Beta	11.4 ± 7.85	12.9	6.24	4mrem/yr	NE	n		075727-034	EPA 900.0
SED AT	Uranium-233/234	$0.785 \pm 0.138$	0.110	0.016	0.03 mg/L	5 mg/L			075727-035	DOE HASL300 U-02 Mod
16-Feb-06	Uranium-235/236	$0.0596 \pm 0.0341$	0.0532	0.0099	0.03 mg/L	5 mg/L		Р1, Ј	075727-035	DOE HASL300 U-02 Mod
	Uranium-238	0.410 ± 0.0891	0.0615	0.0139	0.03 mg/L	5 mg/L			075727-035	DOE HASL300 U-02 Mod
	Radium-226	$0.490 \pm 0.350$	0.494	0.200	2	30	⊃		075727-038	EPA 903.1
	Radium-228	$0.697 \pm 0.362$	0.627	0.277	2	30			075727-039	EPA 904.0
	Gross Alpha	$0.672 \pm 3.61$	6.70	2.89	15	Ŋ	n		075728-034	EPA 900.0
	Gross Beta	3.50 ± 9.69	16.5	8.04	4mrem/yr	빙	J		075728-034	EPA 900.0
SFR-4T	Uranium-233/234	$0.445 \pm 0.0907$	0.0952	0.017	0.03 mg/L	5 mg/L			075728-035	DOE HASL300 U-02 Mod
(Duplicate)	Uranium-235/236	$0.0258 \pm 0.0194$	0.0461	00.00	0.03 mg/L	5 mg/L	⊃	P1, UJ	075728-035	DOE HASL300 U-02 Mod
16-Feb-06	Uranium-238	$0.125 \pm 0.0439$	0.0534	0.0139	0.03 mg/L	5 mg/L			075728-035	DOE HASL300 U-02 Mod
	Radium-226	$0.634 \pm 0.365$	0.471	0.190	2	30			075728-038	EPA 903.1
Defer to footnotes	Radium-228	$0.601 \pm 0.351$	0.649	0.290	2	30	n		075728-039	EPA 904.0
Kelei to tootholes on page 44	s on page 44									

# Table GWPP A-8 (Concluded) Summary of Radioisotopic Results Groundwater Protection Program Groundwater Surveillance Task

#### Fiscal Year 2006

Well ID	Analyte	Activity <sup>a</sup> (pCi/L)	MDA <sup>b</sup> (pCi/L)	Critical Level <sup>c</sup> (pCi/L)	MCL/ MAC <sup>d</sup> (pCi/L)	IAC <sup>d</sup>	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>r</sup>	Sample No.	Sample No. Analytical Method <sup>9</sup>
	Gross Alpha	4.50 ± 1.11	1.31	0.611	15	NE			075742-034	EPA 900.0
	Gross Beta	5.46 ± 1.37	2.07	1.01	4mrem/yr	NE			075742-034	EPA 900.0
	Uranium-233/234	3.32 ± 0.390	0.101	0.018	0.03 mg/L	5 mg/L			075742-035	DOE HASL300 U-02 Mod
SWIA3-MWZ	Uranium-235/236	$0.125 \pm 0.0464$	0.0488	0.00908	0.03 mg/L	5 mg/L		J, P1	075742-035	DOE HASL300 U-02 Mod
00-00-1-79	Uranium-238	$1.06 \pm 0.157$	0.0565	0.018	0.03 mg/L	5 mg/L			075742-035	DOE HASL300 U-02 Mod
	Radium-226	0.043 ± 0.348	0.683	0.283	2	30	D		075742-038	EPA 903.1
	Radium-228	1.08 ± 0.467	0.763	0.339	2	30			075742-039	EPA 904.0
	Gross Alpha	2.69 ± 1.28	1.55	0.679	15	NE			075744-034	EPA 900.0
	Gross Beta	5.21 ± 1.19	1.76	0.857	4mrem/yr	ŊĘ			075744-034	EPA 900.0
	Uranium-233/234	2.25 ± 0.271	0.0889	0.0172	0.03 mg/L	5 mg/L			075744-035	DOE HASL300 U-02 Mod
SWIA3-MW3	Uranium-235/236	0.0896 ± 0.0426	0.0431	0.0196	0.03 mg/L	5 mg/L		J, P1	075744-035	DOE HASL300 U-02 Mod
00-00	Uranium-238	0.853 ± 0.128	0.0498	0.0112	0.03 mg/L	5 mg/L			075744-035	DOE HASL300 U-02 Mod
	Radium-226	$0.00 \pm 0.335$	0.679	0.282	2	30	n		075744-038	EPA 903.1
	Radium-228	$1.02 \pm 0.531$	0.943	0.421	2	30			075744-039	EPA 904.0
	Gross Alpha	3.73 ± 1.53	1.98	0.890	15	NE			075746-034	EPA 900.0
	Gross Beta	$6.04 \pm 2.33$	3.64	1.77	4mrem/yr	NE			075746-034	EPA 900.0
	Uranium-233/234	2.47 ± 0.322	0.121	0.0264	0.03 mg/L	5 mg/L			075746-035	DOE HASL300 U-02 Mod
SWIA3-MW4	Uranium-235/236	$0.0935 \pm 0.0495$	0.0585	0.0218	0.03 mg/L	5 mg/L			075746-035	DOE HASL300 U-02 Mod
	Uranium-238	$0.817 \pm 0.141$	0.0676	0.0249	0.03 mg/L	5 mg/L			075746-035	DOE HASL300 U-02 Mod
	Radium-226	$0.401 \pm 0.401$	0.636	0.264	2	30	n		075746-038	EPA 903.1
	Radium-228	$0.726 \pm 0.562$	1.13	0.506	2	30	D	m	075746-039	EPA 904.0
	Gross Alpha	28.7 ± 4.57	3.19	1.43	15	ŊĘ			075725-034	EPA 900.0
	Gross Beta	14.8 ± 4.50	6.98	3.41	4mrem/yr	NE			075725-034	EPA 900.0
I I	Uranium-233/234	23.6 ± 2.80	0.159	0.0284	0.03 mg/L	5 mg/L			075725-035	DOE HASL300 U-02 Mod
1 KE-1 15-E9h-06	Uranium-235/236	$0.567 \pm 0.135$	0.077	0.0203	0.03 mg/L	5 mg/L		J, P1	075725-035	DOE HASL300 U-02 Mod
	Uranium-238	$6.17 \pm 0.789$	0.0891	0.0232	0.03 mg/L	5 mg/L			075725-035	DOE HASL300 U-02 Mod
	Radium-226	$0.679 \pm 0.379$	0.469	0.186	2	30			075725-038	EPA 903.1
	Radium-228	0.411 ± 0.424	0.901	0.399	2	30	n		075725-039	EPA 904.0
Refer to footnotes on page 43.	1 page 43.									

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# Table GWPP A-9 Summary of Field Water Quality Measurements<sup>h</sup> Groundwater Protection Program Groundwater Surveillance Task

### Fiscal Year 2006

Well ID	Sample Date	Sampling Type	Initial Depth to Sa water (fbtoc) (f	Sampling Depth (fbtoc)	Purge Volume (gal)	Temperature (°C)	Specific	Oxidation Reduction Potential (mV)	Hd	Turbidity (NTU)	Dissolved Oxygen (%Sat)	Alkalinity (mg/L CaCO <sub>3</sub> at 4.5 pH)
Coyote Springs	20-Feb-06	n/a	n/a	n/a	n/a	10.66	3,109	223.7	6.20	2.13	50.5	866
Eubank-1	14-Feb-06	Bennett Pump	552.75	609	107	18.76	467	171.0	7.60	0.51	60.2	164
EOD Hill	13-Mar-06	Bennett Pump	142.00	213	20	15.01	3,675	-84.3	6.05	3.99	13.0	1,780
Greystone-MW2	24-Feb-06	Bennett Pump	51.57	82	28	15.85	1,095	115.6	6.52	2.23	70.4	460
	09-Dec-05	Bennett Pump	431.68	442	42	17.91	431	86.0	7.59	1.95	67.9	n/a
C NON	07-Mar-06	Bennett Pump	431.66	442	40	18.57	441	235.4	7.74	0.46	75.1	156
7-1210	90-unf-90	Bennett Pump	431.97	442	40	21.09	459	20.6	7.31	0.61	9.69	n/a
	21-Sep-06	Bennett Pump	432.16	442	40	18.39	420	326.6	7.57	0.65	70.8	n/a
	12-Dec-05	Bennett Pump	432.22	683	62	18.97	469	51.7	7.45	4.31	1.6	n/a
000	08-Mar-06	Bennett Pump	432.02	682	62	18.66	475	105.3	7.57	1.36	1.9	157
MIKIN-3D	90-unr-80	Bennett Pump	432.85	683	62	20.76	492	10.7	7.35	0.99	2.1	n/a
	25-Sep-06	Bennett Pump	432.23	683	62	20.81	450	303.9	7.44	0.46	2.5	n/a
	14-Dec-05	QED Pump	464.85	477	12 Liters	11.57	424	69.7	7.84	1.35	72.8	n/a
NWTA3-MW2	21-Feb-06	QED Pump	464.96	470	12 Liters	14.37	425	231.9	7.77	0.19	69.5	142
	05-Jun-06	QED Pump	465.36	477	12 Liters	26.38	446	23.8	7.21	0.29	78.0	n/a
NWTA3-MW3D	22-Feb-06	Bennett Pump	464.24	675	62	18.66	378	236.0	7.77	0.53	36.5	141
PL-2	03-Mar-06	Bennett Pump	466.91	599	22	18.19	406	195.9	7.84	0.31	63.4	144
PL-3*	06-Mar-06	Bennett Pump	465.25	467	7	17.93	470	210.3	7.74	1.91	72.8	148
SFR-2S	23-Feb-06	Bennett Pump	99.47	118	44	15.60	1,102	91.1	6.94	9.03	72.8	365
SFR-4T	16-Feb-06	Bennett Pump	146.60	358	74	15.79	4,072	148.6	8.08	0.68	12.8	105
SWTA3-MW2	27-Feb-06	Bennett Pump	446.55	476	28	19.60	413	100.4	7.60	99.0	44.4	166
SWTA3-MW3	28-Feb-06	Bennett Pump	443.78	641	99	20.41	438	188.5	7.79	69.0	46.7	148
	01-Mar-06	Bennett Pump	444.23	453	25	20.30	446	240.3	7.83	1.15	77.3	168
SWTA3-MW4	12-Jun-06	Bennett Pump	444.70	453	26	21.36	469	16.8	7.35	1.65	70.2	n/a
	22-Sep-06	Bennett Pump	444.63	453	22	18.74	426	322.9	7.65	1.33	71.5	n/a
TRE-1	15-Feb-06	Bennett Pump	174.46	296	114	16.35	1,297	231.6	6.75	0.35	9.02	445
Refer to footnotes on page 43	page 43.											

APPENDICES

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#### <sup>a</sup>Result and/or Activity

- Values in bold exceed the established MCL and/or MAC.
- ND = not detected (at method detection limit).
- Activities of zero or less are considered to be not detected.
- μg/L = micrograms per liter
- mg/L = milligrams per liter
- pCi/L = picocuries per liter

#### bMDL or MDA

Method detection limit. The minimum concentration or activity that can be measured and reported with 99% confidence that the analyte is greater than zero, analyte is matrix specific.

The minimal detectable activity or minimum measured activity in a sample required to ensure a 95% probability that the measured activity is accurately quantified above the critical level

#### °PQL or Critical Level

Practical quantitation limit. The lowest concentration of analytes in a sample that can be reliably determined within specified limits of precision and accuracy by that indicated method under routine laboratory operating conditions. The minimum activity that can be measured and reported with 99% confidence that the analyte is greater than zero, analyte is matrix specific

#### dMCL/MAC

Maximum contaminant level. Established by the U.S. Environmental Protection Agency Primary Water Regulations (40 CFR 141.11(b)), and subsequent amendments or the New Mexico Environmental Improvement Board in Title 20, Chapter 7, Part 1 of the New Mexico Administrative Code (20MAC 7.1). Maximum Allowable Concentration in groundwater for the contaminants specified in 20 NMAC 6.2, Sec 3103, Human Health Standards.

NE = not established.

15 pCi/L = the maximum gross alpha activity, including radium-226, but excluding radon and total uranium. 4 mrem/yr = any combination of beta and/or gamma emitting radionuclides (as dose rate).

#### <sup>e</sup>Lab Qualifier

- B = Analyte is detected in associated laboratory method blank.
- J = Amount detected is below the practical quantitation limit (PQL).
- U = Analyte is absent or below the method detection limit.
- X = Data rejected due to low abundance.

#### Validation Qualifier

If cell is blank, then all quality control samples meet acceptance criteria with respect to submitted samples.

- A2 = Laboratory accuracy and/or bias measurements for the associated matrix spike and/or matrix spike duplicate do not meet acceptance criteria.
- B = Analyte present in associated laboratory method blank.
- B1 = Analyte present in associated trip blank sample.
- B2 = Analyte present in associated equipment blank.
- B3 = Analyte present in associated continuing calibration blank.
- J = The associate value is an estimated quantity.
- = The laboratory precision measurements for the associated matrix spike and/or matrix spike duplicate do not meet acceptance criteria.
- P2 = Insufficient quality control data to determine laboratory precision.
- R = The data are unusable for their intended purpose. The analyte may or may not be present.
- #U = Analyte was qualified as not detected at the listed value.
- #UJ = Analyte was qualified as not detected at the listed value. The value is an estimate.
- UJ = Analyte not detected above laboratory method detection limit, but associated value is an estimate and may be inaccurate or imprecise.

#### Footnotes for **Groundwater Protection Program Groundwater Surveillance Task** (Concluded)

#### <sup>g</sup>Analytical Method

U.S. Environmental Protection Agency, 1990, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd ed.

U.S. Environmental Protection Agency, 1983, "The Determination of Inorganic Anions in Water by Ion Chromatography-Method 300.0."

EPA-600/4-84-017.

U.S. Environmental Protection Agency, 1999, "Perchlorate in Drinking Water Using Ion Chromatography," EPA 815/R-00-014.

U.S. Environmental Protection Agency, 2005, "Perchlorate in Water, Soils, and Solids Using High Performance Liquid Chromatography/Electrospray Ionization/Mass Spectrometry (HPLC/ESI/MS)," draft, Method 6850. Analytical method used to detect radionuclides is HASL 300 4.5.2.3:

U.S. Department of Energy, Environmental Measurements Laboratory, 1997, "EML Procedures Manual," 27th ed., Vol. 1, Rev. 1992, HASL-300.

EPA 9310: U.S. Environmental Protection Agency, 1990, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3<sup>rd</sup> ed.

EPA 903.0/904.0: U.S. Environmental Protection Agency, 1980, "Prescribed Procedures for Measurement of Radioactivity in Drinking Water," EPA-600/4-80-032.

#### <sup>h</sup>Field Water Quality Measurements

Field measurements collected prior to sampling.

°C = degrees Celsius % Sat = percent saturation

fbtoc = feet below top of casing

gal = gallons

µmho/cm = micromhos per centimeter

mg/L = milligrams per liter

mV = millivolts

NTU = nephelometric turbidity units

pH = potential of hydrogen (negative logarithm of the hydrogen ion concentration)

PL-3\* = last measurement prior to well going dry

#### APPENDIX B

#### Chemical Waste Landfill Groundwater Surveillance Task

#### Table of Contents

CWL-B1	Summary of Detected Volatile and Semi-Volatile Organic Compounds, Herbicides, and Polychlorinated Biphenyls, Chemical Waste Landfill Groundwater Monitoring, Fiscal Year 2006
CWL-B2	Method Detection Limits for Appendix IX Volatile Organic Compounds Chemical Waste Landfill Monitoring, Fiscal Year 2006
CWL-B3	Method Detection Limits for Appendix IX Semi-Volatile Organic Compounds Chemical Waste Landfill Groundwater Monitoring, Fiscal Year 2006
CWL-B4	Method Detection Limits for Chlorinated Herbicides and Polychlorinated Biphenyls, Chemical Waste Landfill Groundwater Monitoring, Fiscal Year 2006
CWL-B5	Summary of Sulfides and Total Cyanide Results, Chemical Waste Landfill Groundwater Monitoring, Fiscal Year 2006
CWL-B6	Summary of Total Metal Results, Chemical Waste Landfill Groundwater Monitoring, Fiscal Year 2006
CWL-B7	Summary of Dissolved Chromium Results, Chemical Waste Landfill Groundwater Monitoring, Fiscal Year 2006
CWL-B8	Summary of Field Water Quality Measurements, Chemical Waste Landfill Groundwater Monitoring, Fiscal Year 2006
Footnotes	for Chemical Waste Landfill Groundwater MonitoringB-29



Summary of Detected Volatile and Semi-Volatile Organic Compounds, Chlorinated Herbicides, and Polychlorinated Biphenyls Chemical Waste Landfill Groundwater Monitoring Table CWL B-1

CWV-EWUS         bits/2-ethylhrew/liphthalate         2.02         1.92         9.62         6.0         J         J         O71806-002         SWUR46 BZDD           CWV-EWUS         CWV-EWUS         CWV-EWUS         1.01         6.0         J         J         O71806-002         SWUR46 BZD           CWV-EWUS         CWV-EWUS         Trichloroethene         0.845         0.250         1.00         5.0         J         O71805-00         SWUR46 BZD           CWV-EWUS         Trichloroethene         0.883         0.250         1.00         6.0         J         J         071825-01         SWUR46 BZD           CWV-EWUS         Trichloroethene         0.883         0.250         1.00         6.0         J         071820-00         SWUR46 BZD           CWV-EWUS         Trichloroethene         0.883         0.250         1.00         6.0         J         071820-00         SWUR46 BZD           CWV-EWUS         Trichloroethene         0.883         0.250         1.00         1.00         J         0.71830-00         SWUR46 BZD           CWV-EWUS         Trichloroethene         0.883         0.250         1.00         J         0.71830-00         SWUR46 BZD           CWV-EWUS         Trichloroethene </th <th>Well ID</th> <th>Analyte</th> <th>Result<sup>a</sup> (µg/L)</th> <th>MDL<sup>b</sup> (µg/L)</th> <th>PQL° (µg/L)</th> <th>MCL<sup>d</sup> (µg/L)</th> <th>Laboratory Qualifier</th> <th>Validation Qualifier<sup>f</sup></th> <th>Sample No.</th> <th>Analytical Method<sup>g</sup></th>	Well ID	Analyte	Result <sup>a</sup> (µg/L)	MDL <sup>b</sup> (µg/L)	PQL° (µg/L)	MCL <sup>d</sup> (µg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
District Ethylhexyl)pithhalate	CWL-BW3 03-Oct-05	bis(2-Ethylhexyl)phthalate	2.02	1.92	9.62	6.0	٦		071806-002	SW846 8270
Trichlorcethene	CWL-BW4A 12-Oct-05	bis(2-Ethylhexyl)phthalate	4.80	2.02	10.1	6.0	٦	ר	071808-002	SW846 8270
Trichloroethene         0.683         0.250         1.00         5.0         J         J         O71825-001           bis(2-Ety/hexyl)phthalate         3.58         2.00         10.0         6.0         J         J         J         O71826-001         3           Trichloroethene         0.383         0.250         1.00         5.0         J         <	CWL-MW2BU 20-Oct-05	Trichloroethene	0.945	0.250	1.00	5.0	٦		071814-001	SW846 8260
6L         bist/2-Ethylhexyl)prihthalate         3.58         2.00         10.0         6.0         J         J         J         O71827-002           6U         Trichloroethene         0.383         0.250         1.00         5.0         J         J         O71830-001           8U         Trichloroethene         4.86         1.98         9.90         6.0         J         O71830-002           3         Acetone         1.87         1.25         5.00         NE         J         5.0U, B1         O71830-001           4A         Toluene         0.409         0.250         1.00         J         C00, B1         O76896-001           1A         Toluene         0.696         0.250         1.00         J         C76896-001           2BL         Acetone         2.01         2.00         5.00         J         T1.3U         O76896-001           2BL         Acetone         2.01         2.00         1.00         J         T1.3U         O76896-001           2BL         Acetone         2.01         1.25         5.00         J         T1.3U         O76896-001           2BL         Acetone         2.75         1.25         5.00         J	CWL-MW5U 17-Oct-05	Trichloroethene	0.683	0.250	1.00	5.0	٦		071825-001	SW846 8260
6U         Trichloroethene         0.383         0.250         1.00         5.0         J         071830-001           4         Fisic2-Ettylhexyl)phthalate         4.86         1.98         9.90         6.0         J         071830-001           4A         Acetone         1.87         1.25         5.00         J         5.0U, B1         077888-001           4A         Acetone         0.409         0.250         1.00         1,000         J         5.0U, B1         077888-001           4A         Acetone         0.260         1.00         1,000         J         077889-001           2BU         Acetone         0.260         1.00         J         11.3U         077899-001           2BU         Acetone         2.75         1.25         5.00         NE         J         11.3U         077899-001           2BU         Acetone         2.75         1.25         5.00         NE         J         11.3U         077899-001           2BU         Acetone         3.70         1.25         5.00         NE         J         11.3U         07899-001           4         Acetone         3.70         1.25         5.00         NE         J         <	CWL-MW6L 13-Oct-05	bis(2-Ethylhexyl)phthalate	3.58	2.00	10.0	0.9	٦	٦	071827-002	SW846 8270
Acetone	CWL-MW6U	Trichloroethene	0.383	0.250	1.00	5.0	7		071830-001	SW846 8260
3         Acetone         1.87         1.25         5.00         NE         J         5.0U, B1         076886-001           4A         Toluene         0.409         0.250         1.00         1,000         J         5.0U, B1         076886-001           1A         Toluene         0.844         0.250         1.00         1,000         J         0.76892-001           Acetone         2.01         2.00         5.00         NE         J         11.3U         076892-001           2BL         Acetone         2.75         1.25         5.00         NE         J         11.3U         076892-001           2BU         Acetone         2.75         1.25         5.00         NE         J         11.3U         076892-001           2BU         Acetone         2.75         1.25         5.00         NE         J         11.3U         076892-001           2BU         Acetone         2.75         1.25         5.00         NE         J         11.3U         076892-001           3BU         Acetone         3.77         1.25         5.00         NE         J         11.3U         076892-001           4         Acetone         3.77 <th< td=""><td>19-Oct-05</td><td>bis(2-Ethylhexyl)phthalate</td><td>4.86</td><td>1.98</td><td>06.6</td><td>0.9</td><td>7</td><td></td><td>071830-002</td><td>SW846 8270</td></th<>	19-Oct-05	bis(2-Ethylhexyl)phthalate	4.86	1.98	06.6	0.9	7		071830-002	SW846 8270
3 Acetone         1.87         1.25         5.00         NE         J         5.0U, B1         076886-001           4A Tolluene         Tolluene         0.499         0.250         1.00         1,000         J         5.0U, B1         076886-001           1A Tolluene         Tolluene         0.844         0.250         1.00         1,000         J         076891-001           2B Tolluene         0.696         0.250         1.00         NE         J         11.3U         076892-001           2BU Acetone         2.75         1.25         5.00         NE         J         11.3U         076892-001           2BU Acetone         2.75         1.25         5.00         NE         J         11.3U         076892-001           2BU Acetone         2.75         1.25         5.00         NE         J         11.3U         076892-001           4         Acetone         3.70         1.25         5.00         NE         J         11.3U         076892-001           5L         Acetone         3.70         1.25         5.00         NE         J         11.3U         076892-001           5L         Acetone         3.77         1.25         5.00										
Toluene         Toluene         0.409         0.250         1.00         1,000         J         70886-001           Toluene         Toluene         0.844         0.250         1.00         1,000         J         70892-001           Toluene         1.75         1.25         5.00         NE         J         11.3U         076892-001           2BU         Acetone         2.75         1.25         5.00         NE         J         11.3U         076892-001           2BU         Acetone         2.75         1.25         5.00         NE         J         11.3U         076892-001           2BU         Acetone         2.75         1.25         5.00         NE         J         11.3U         076892-001           2BU         Acetone         3.34         0.250         1.00         5.0         NE         J         11.3U         076892-001           2BU         Acetone         3.37         1.25         5.00         NE         J         11.3U         076892-001           5L         Acetone         3.37         1.25         5.00         NE         J         11.3U         076900-001           5U         Acetone         J	CWL-BW3	Acetone	1.87	1.25	5.00	岁	7	5.0U, B1	076886-001	SW846 8260
4A Toluene         Toluene         0.844         0.250         1.00         J         J         076891-001           4A Setone         2.01         2.00         5.00         J         J         076892-001           2BL Acetone         1.75         1.25         5.00         NE         J         11.3U         076894-001           2BU Acetone         2.75         1.25         5.00         NE         J         11.3U         076896-001           2BU Acetone         2.75         1.25         5.00         NE         J         11.3U         076896-001           2BU Acetone         3.70         1.25         5.00         NE         J         11.3U         076896-001           5L Acetone         3.70         1.25         5.00         NE         J         11.3U         076896-001           5L Acetone         3.77         1.25         5.00         NE         J         11.3U         076896-001           5L Acetone         3.07         1.25         5.00         NE         J         J         J         J         J         J         J         J         J         J         J         J         J         J         J         J <th< td=""><td>07-Apr-06</td><td>Toluene</td><td>0.409</td><td>0.250</td><td>1.00</td><td>1,000</td><td>7</td><td></td><td>076886-001</td><td>SW846 8260</td></th<>	07-Apr-06	Toluene	0.409	0.250	1.00	1,000	7		076886-001	SW846 8260
4A Acetone         Methylene chloride         2.01         2.00         5.00         5.00         J         J         T/1.3U         076892-001           2BL Acetone         0.696         0.250         1.00         1,000         J         11.3U         076894-001           2BU Acetone         2.75         1.25         5.00         NE         J         11.3U         076896-001           2BU Acetone         2.75         1.25         5.00         NE         J         11.3U         076896-001           4 Acetone         3.70         1.25         5.00         NE         J         11.3U         076896-001           5L Acetone         3.70         1.25         5.00         NE         J         11.3U         076896-001           5L Acetone         3.77         1.25         5.00         NE         J         11.3UJ         076990-001           5L Acetone         7.15         6.25         25.0         NE         J         J         11.3UJ         076900-001           5U Acetone         4.14         1.25         5.00         NE         J         J         J         J         J         J         J         J         J         J         J	CWL-BW4A 05-Apr-06	Toluene	0.844	0.250	1.00	1,000	ſ		076891-001	SW846 8260
ZBL Acetone         Acetone         1.75         1.25         5.00         NE         J         11.3U         076892-001           ZBU Acetone         2.75         1.25         5.00         NE         J         11.3U         076896-001           ZBU Acetone         2.75         1.25         5.00         NE         J         11.3U         076896-001           4         Acetone         3.70         1.25         5.00         NE         J         11.3U         076896-001           5L Acetone         3.77         1.25         5.00         NE         J         11.3U         076898-001           5L Acetone         3.07         1.25         5.00         NE         J         11.3UJ         076900-001           5U Acetone         7.15         6.25         25.0         NE         J         J         11.3UJ         076900-001           5U Acetone         4.14         1.25         5.00         NE         J         J         076900-001           5U Acetone         4.14         1.25         5.00         NE         J         11.3UJ         076900-001           5U Acetone         0.623         0.250         1.00         J         J	CWL-BW4A (Duplicate)	Methylene chloride	2.01	2.00	5.00	5.0	٦		076892-001	SW846 8260
2BL Acetone         Acetone         1.75         1.25         5.00         NE         J         11.3U         076894-001           2BU Acetone         2.75         1.25         5.00         NE         J         11.3U         076896-001           4         Acetone         3.70         1.25         5.00         NE         J         11.3UJ         076896-001           5L Acetone         3.07         1.25         5.00         NE         J         11.3UJ         076890-001           5L Acetone         7.15         6.25         25.0         NE         J         11.3UJ         076900-001           5U Acetone         0.818         0.250         1.00         5.0         J         11.3UJ         076900-001           5U Acetone         0.623         0.250         1.00         NE         J         11.3UJ         076903-001           5U Acetone         0.623         0.250         1.00         1,000         J         11.3UJ         076903-001           5U Acetone         0.623         0.250         1.00         5.0         J         11.3UJ         076903-001           7 Irichloroethene         1.64         0.250         1.00         5.0         J	05-Apr-06	Toluene	969.0	0.250	1.00	1,000	٦		076892-001	SW846 8260
2BU         Acetone         2.75         1.25         5.00         NE         J         11.3U         076896-001           4         Trichloroethene         3.34         0.250         1.00         5.0         NE         J         11.3UJ         076896-001           5L         Acetone         3.07         1.25         5.00         NE         J         11.3UJ         076900-001           5L         Acetonitrile         7.15         6.25         25.0         NE         J         J         076900-001           FUIChloroethene         0.818         0.250         1.00         5.0         J         11.3UJ         076903-001           5U Acetone         4.14         1.25         5.00         NE         J         11.3UJ         076903-001           Fulluene         0.623         0.250         1.00         1,000         J         11.3UJ         076903-001           Trichloroethene         1.64         0.250         1.00         5.0         J         076903-001	CWL-MW2BL 26-Apr-06	Acetone	1.75	1.25	5.00	N N	٦	11.30	076894-001	SW846 8260
4         Trichloroethene         3.34         0.250         1.00         5.0         NE         J         11.3UJ         076896-001         3           5L         Acetone         3.07         1.25         5.00         NE         J         11.3UJ         076900-001         3           Trichloroethene         7.15         6.25         25.0         NE         J         J         076900-001         3           Trichloroethene         0.818         0.250         1.00         5.0         J         11.3UJ         076900-001         3           5U         Acetone         4.14         1.25         5.00         NE         J         11.3UJ         076903-001         3           Toluene         0.623         0.250         1.00         1,000         J         076903-001         3           Trichloroethene         1.64         0.250         1.00         5.0         J         076903-001         3	CWL-MW2BU	Acetone	2.75	1.25	5.00	묑	٦	11.3U	076896-001	SW846 8260
4 Acetone         3.70         1.25         5.00         NE         J         11.3UJ         076996-001           5L Acetone         3.07         1.25         5.00         NE         J         11.3UJ         076900-001           Trichloroethene         0.818         0.250         1.00         5.0         J         J         076900-001           5U         Acetone         4.14         1.25         5.00         NE         J         11.3UJ         076903-001           Tolluene         0.623         0.250         1.00         1,000         J         076903-001           Trichloroethene         1.64         0.250         1.00         5.0         J         076903-001	24-Apr-06	Trichloroethene	3.34	0.250	1.00	5.0			076896-001	SW846 8260
5L         Acetone         3.07         1.25         5.00         NE         J         11.3UJ         076900-001           Acetonitrile         7.15         6.25         25.0         NE         J         J         J         076900-001           FU         Acetone         0.818         0.250         1.00         5.0         J         11.3UJ         076900-001           5U         Acetone         4.14         1.25         5.00         NE         J         11.3UJ         076903-001           Tolluene         0.623         0.250         1.00         1,000         J         076903-001           Trichloroethene         1.64         0.250         1.00         5.0         D         076903-001	CWL-MW4 11-Apr-06	Acetone	3.70	1.25	5.00	Ш N	7		076898-001	SW846 8260
Acetonitrile         7.15         6.25         25.0         NE         J         J         O76900-001         3           Trichloroethene         0.818         0.250         1.00         5.0         J         11.3UJ         076900-001         3           SU         Acetone         4.14         1.25         5.00         NE         J         11.3UJ         076903-001         3           Toluene         0.623         0.250         1.00         1,000         J         076903-001         3           Trichloroethene         1.64         0.250         1.00         5.0         0         0         076903-001         3	CWL-MW5L	Acetone	3.07	1.25	5.00	岁	7	11.30J	076900-001	SW846 8260
FU         Trichloroethene         0.818         0.250         1.00         5.0         J         11.3UJ         076900-001           5U         Acetone         4.14         1.25         5.00         NE         J         11.3UJ         076903-001         076903-001           Toluene         0.623         0.250         1.00         1,000         J         076903-001         076903-001	18-Apr-06	Acetonitrile	7.15	6.25	25.0	빙	7	٦	076900-001	SW846 8260
5U         Acetone         4.14         1.25         5.00         NE         J         11.3UJ         076903-001           Tolluene         0.623         0.250         1.00         1,000         J         076903-001           Trichloroethene         1.64         0.250         1.00         5.0         076903-001		Trichloroethene	0.818	0.250	1.00	5.0	7		076900-001	SW846 8260
Toluene         0.623         0.250         1.00         1,000         J         076903-001           Trichloroethene         1.64         0.250         1.00         5.0         076903-001	CWL-MW5U	Acetone	4.14	1.25	5.00	IJZ	7	11.3UJ	076903-001	SW846 8260
1.64 0.250 1.00 5.0 0.76903-001	14-Apr-06	Toluene	0.623	0.250	1.00	1,000	ſ		076903-001	SW846 8260
		Trichloroethene	1.64	0.250	1.00	5.0			076903-001	SW846 8260

Refer to footnotes on page 29.

**APPENDICES** 

Summary of Detected Volatile and Semi-Volatile Organic Compounds, Chlorinated Herbicides, and Polychlorinated Biphenyls Chemical Waste Landfill Groundwater Monitoring Table CWL B-1 (Concluded)

Well ID	Analyte	Result <sup>a</sup> (µg/L)	MDL <sup>b</sup> (µg/L)	PQL° (µg/L)	MCL <sup>d</sup> (µg/L)	MCL <sup>d</sup> Laboratory Validation (µg/L) Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
CWL-MW6L 20-Apr-06	Trichloroethene	0.714	0.250	1.00	5.0	٦		076905-001	SW846 8260
CWL-MW6L (Duplicate) 20-Apr-06	Trichloroethene	0.644	0.250	1.00	5.0	7		076906-001	SW846 8260
CWL-MW6U	Acetone	17.5	1.25	2:00	ЭN		17.5UJ, B1,B2	076910-001	SW846 8260
18-Apr-06	Toluene	0.403	0.250	1.00	1,000	٦		076910-001	SW846 8260
	Trichloroethene	0.458	0.250	1.00	2.0	7		076910-001	SW846 8260
Refer to footnotes on page 29.									

Table CWL B-2
Method Detection Limits for Appendix IX Volatile Organic Compounds
Chemical Waste Landfill Groundwater Monitoring

1.1.1.2-Tetrachic contraine         0.250         SWR46 8260         Chloroform         0.250         SWR46 8260         Chloroform           1.1.2-Tetrachic contraine         0.300         SWR46 8260         Chloroprene         0.300         SWR46 8260         SWR	Analyte	MDL <sup>b</sup> (µg/L)	Analytical Method <sup>g</sup>	Analyte	MDL <sup>b</sup> (µg/L)	Analytical Method <sup>g</sup>
ane         0.300         SW848 B260         Chloroprene         0.500           ane         0.250         SW848 B260         Chloroprene         0.300           0.250         SW848 B260         Dibromochloromethane         0.300           0.300         SW848 B260         Dibromochloromethane         0.300           0.300         SW848 B260         Dibromochloromethane         0.300           0.300         SW848 B260         Ethy benzene         0.250           0.750         SW848 B260         Ethy benzene         0.250           0.250         SW848 B260         Ethy benzene         1.50           0.250         SW848 B260         Ethy with methacylate         1.00           0.250         SW848 B260         Industry chindle         1.25           0.250         SW848 B260         Methylene chindle         1.00           1.25         SW848 B260         Methylene chindle         2.00           1.25         SW848 B260         Styrene         0.250           1.25         SW848 B260         Trichloropthene         0.250           2.00         SW848 B260         Vinyl acetale         0.250           3.00         SW848 B260         Vinyl acetale         0.250	1,1,1,2-Tetrachloroethane	0.250	SW846 8260	Chloroform	0.250	SW846 8260
ane         0.250         SW846 8260         Chloroprene         0.300         Chloroprene           0.300         SW846 8260         Dibromochloromethane         0.300           s         0.300         SW846 8260         Ethyl bordinomethane         0.300           s         0.300         SW846 8260         Ethyl bordinomethane         0.250           e         0.300         SW846 8260         Ethyl methacrylate         1.50           e         0.300         SW846 8260         Ethyl methacrylate         1.00           propane         0.500         SW846 8260         Ishl methacrylate         1.00           p         0.250         SW846 8260         Ishl methacrylate         1.00           p         0.250         SW846 8260         Ishl methacrylate         1.00           p         1.25         SW846 8260         Methyl methacrylate         1.00           p         1.25         SW846 8260         Pentachloroethane         0.250           p         SW846 8260         Trichloroethane         0.250           p         SW846 8260         Trichloroethane         0.250           p         SW846 8260         Trichloroethane         0.250           p         SW84	1,1,1-Trichloroethane	0.300	SW846 8260	Chloromethane	0.500	SW846 8260
0.260         SW846 8260         Dibromochloromethane         0.260           0.300         SW846 8260         Dibromochloromethane         0.300           0.300         SW846 8260         Ethyl benzene         0.500           e         0.300         SW846 8260         Ethyl benzene         0.500           pe         0.300         SW846 8260         Ethyl benzene         1.50           pe         0.300         SW846 8260         Ethyl methacylate         1.00           po         0.500         SW846 8260         Ethyl methacylate         1.00           po         0.250         SW846 8260         Ithly methacylate         1.00           po         0.250         SW846 8260         Ithly methacylate         1.00           po         1.25         SW846 8260         Methyl methacylate         1.00           po         1.25         SW846 8260         Methyl methacylate         1.00           po         1.25         SW846 8260         Syrae         1.00           po         1.25         SW846 8260         Tetrachloroethene         0.250           po         1.25         SW846 8260         Trichloroethene         0.250           po         0.300	1,1,2,2-Tetrachloroethane	0.250	SW846 8260	Chloroprene	0.300	SW846 8260
e         0.300         SW846 8260         Dichonomethane         0.300           e         0.300         SW846 8260         Dichlorodiflucromethane         0.500           e         0.300         SW846 8260         Ethyl benzene         0.550           propane         0.500         SW846 8260         Ethyl benzene         1.50           propane         0.500         SW846 8260         Ethyl methacylate         1.00           0.250         SW846 8260         Ichyl methacylate         1.00           0.250         SW846 8260         Ichyl methacylate         1.00           1.25         SW846 8260         Methyl methacylate         1.00           e         1.25         SW846 8260         Methylene chloride         2.00           e         1.25         SW846 8260         Methylene chloride         0.250           e         1.25         SW846 8260         Tetrachloroethane         0.250           s.0         SW846 8260         Totloroethane         0.250           s.0         SW846 8260         Trichlorothormethane         0.250           s.0         SW846 8260         Vinyl acelate         0.250           c         0.20         SW846 8260         Vinyl acelate	1,1,2-Trichloroethane	0.250	SW846 8260	Dibromochloromethane	0.250	SW846 8260
e         0.300         SW846 8260         Dichlorodifluoromethane         0.500           e         0.300         SW846 8260         Ethyl benzene         0.250           popme         0.300         SW846 8260         Ethyl methacylate         1.50           popme         0.500         SW846 8260         Ichyl methacylate         1.25           0.250         SW846 8260         Ichyl methacylate         1.25           0.250         SW846 8260         Methyl methacylate         1.00           1.25         SW846 8260         Methyl methacylate         1.00           e         1.25         SW846 8260         Methyl methacylate         1.00           e         1.25         SW846 8260         Methyl methacylate         1.00           e         1.25         SW846 8260         Althyl methacylate         1.00           e         1.25         SW846 8260         Althyl methacylate         1.00           e         5.26         SW846 8260         Tetrachlorochene         0.250           e         2.50         SW846 8260         Trichlorochene         0.250           e         0.260         SW846 8260         Vinyl chloride         0.250           e         0.260	1,1-Dichloroethane	0.300	SW846 8260	Dibromomethane	0.300	SW846 8260
9         0.300         SW846 8260         Ethyl benzene         0.250           e         0.300         SW846 8260         Ethyl cyanide         1.50           propane         0.500         SW846 8260         Ethyl methacrylate         1.00           0.250         SW846 8260         Isobunethane         1.25           0.250         SW846 8260         Methyl methacrylate         1.00           e         1.25         SW846 8260         Methyl methacrylate         1.00           re         1.25         SW846 8260         Pentachloroethane         2.00           re         1.25         SW846 8260         Trichloroethane         0.250           re         0.300         SW846 8260         Trichloroethane         0.250           re         0.250         SW846 8260         Trichloroethane         0.250           re         0.250         SW846 8260         Vinyl chloride         0.250           re	1,1-Dichloroethene	0.300	SW846 8260	Dichlorodifluoromethane	0.500	SW846 8260
e         0.300         SW846 8260         Ethyl methacrylate         1.50           propane         0.500         SW846 8260         Ethyl methacrylate         1.00           0.250         SW846 8260         Indomethane         1.25           0.250         SW846 8260         Methacrylonitrile         1.00           1.25         SW846 8260         Methyl methacrylate         1.00           1.25         SW846 8260         Pentachloroethane         0.250           6.25         SW846 8260         Terachloroethene         0.250           1.00         SW846 8260         Toluene         0.250           3.00         SW846 8260         Trichloroethene         0.250           5.00         SW846 8260         Trichloroethene         0.250           6.25         SW846 8260         Trichloroethene         0.250           6.25         SW846 8260         Vinyl choirde         0.250           6.250         SW846 8260         Xylene         0.250	1,2,3-Trichloropropane	0.300	SW846 8260	Ethyl benzene	0.250	SW846 8260
nropane         0.500         SW846 8260         Ethyl methacrylate         1.00           0.250         SW846 8260         Iodomethane         1.25           0.250         SW846 8260         Isobutanol         12.5           1.25         SW846 8260         Methylm chloride         1.00           1.25         SW846 8260         Methylm chloride         2.00           1.25         SW846 8260         Methylm chloride         2.00           1.25         SW846 8260         Styrene         0.250           6.25         SW846 8260         Terachloroethene         0.250           9.00         SW846 8260         Trichloroethene         0.250           1.00         SW846 8260         Trichloroethene         0.250           1.00         SW846 8260         Trichloroethene         0.250           1.00         SW846 8260         Trichloroethene         0.250           1.25         SW846 8260         Vinyl chloride         0.250           1.25         SW846 8260         Vinyl chloride         0.250           1.25         SW846 8260         SYlene         0.250           1.25         SW846 8260         Sylene         0.250           1.25         SW846 826	1,2,4-Trichlorobenzene	0.300	SW846 8260	Ethyl cyanide	1.50	SW846 8260
0.250         SW846 8260         Iodomethane         1.25           0.250         SW846 8260         Isobutanol         12.5           0.250         SW846 8260         Methacrylonitrile         1.00           1.25         SW846 8260         Methyl methacylate         1.00           1.25         SW846 8260         Methyl methacylate         1.00           1.25         SW846 8260         Methylene chloride         2.00           1.25         SW846 8260         Pentachloroethane         0.250           1.26         SW846 8260         Trichloroethene         0.250           1.00         SW846 8260         Vinyl acteate         0.250           1.25         SW846 8260         Vinyl acteate         0.250           1.26         SW846 8260         SW846 8260         Vinyl acteate         0.250           1.25         SW846 8260         SW846 8260         SW846 8260         SW846 8260           1.25         SW846 8260         SW846 8260         SW846 8260	1,2-Dibromo-3-chloropropane	0.500	SW846 8260	Ethyl methacrylate	1.00	SW846 8260
0.250         SW846 8260         Isobutanol         12.5           0.250         SW846 8260         Methacry/onitrile         1.00           1.25         SW846 8260         Methyl methacrylate         1.00           1.25         SW846 8260         Methyl methacrylate         1.00           1.25         SW846 8260         Pentachloroethane         2.00           6.25         SW846 8260         Styrene         0.250           3.00         SW846 8260         Tetrachloroethane         0.250           3.00         SW846 8260         Trichloroethane         0.250           4         3.70         SW846 8260         Trichloroethane         0.250           6         0.300         SW846 8260         Vinyl chloride         0.310           6         0.250         SW846 8260         Vinyl chloride         0.500           9         0.250         SW846 8260         Vinyl chloride         0.500           1.25         SW846 8260         Sylane         0.250           0.500         SW846 8260         Vinyl chloride         0.250           0.500         SW846 8260         Sylane         0.250           0.250         SW846 8260         Sylane         0.250     <	1,2-Dibromoethane	0.250	SW846 8260	Iodomethane	1.25	SW846 8260
0.250         SW846 8260         Methacrylonitrile         1.00           1.25         SW846 8260         Methyl methacylate         1.00           1.25         SW846 8260         Methyl methacylate         1.00           1.25         SW846 8260         Methyl methacylate         2.00           1.25         SW846 8260         Pentachloroethane         0.250           6.25         SW846 8260         Tetrachloroethene         0.250           3.00         SW846 8260         Trichloroethene         0.250           1.00         SW846 8260         Trichloroethene         0.250           e         0.300         SW846 8260         Trichlorofluoromethane         0.250           e         0.250         SW846 8260         Vinyl chloride         0.50           e         0.250         SW846 8260         Vinyl chloride         0.50           e         0.250         SW846 8260         Vinyl chloride         0.50           0.500         SW846 8260         SW846 8260         SW846 8260         SW846 8260         SW846 8260           1.25         SW846 8260         SW846 8260         SW846 8260         SW846 8260         SW846 8260           0.250         SW846 8260         SW846 8260	1,2-Dichloroethane	0.250	SW846 8260	Isobutanol	12.5	SW846 8260
1.25         SW846 8260         Methyl methacrylate         1.00           1.25         SW846 8260         Methylmen chloride         2.00           1.25         SW846 8260         Pentachloroethane         0.250           6.25         SW846 8260         Tetrachloroethene         0.250           3.00         SW846 8260         Toluene         0.250           1.00         SW846 8260         Trichloroethene         0.250           3.70         SW846 8260         Trichloroethene         0.250           e         0.300         SW846 8260         Trichlorofluoromethane         0.250           e         0.250         SW846 8260         Vinyl acetate         0.250           e         0.250         SW846 8260         Vinyl chloride         0.500           e         0.250         SW846 8260         Vinyl chloride         0.250           sw846 8260         SW846 8260         SS-Tabichloropropene         0.250           sw846 8260         Sw846 8260         Sea-1,3-Dichloropropene         0.250           sw846 8260         Sw846 8260         Sea-1,3-Dichloropropene         0.250           sw846 8260         Sw846 8260         Sw846 8260         Sw846 8260           sw846 8260	1,2-Dichloropropane	0.250	SW846 8260	Methacrylonitrile	1.00	SW846 8260
ie         1.25         SW846 8260         Methylene chloride         2.00           ie         1.25         SW846 8260         Pentachloroethane         1.00           ie         1.25         SW846 8260         Styrene         0.250           ie         3.00         SW846 8260         Tetrachloroethene         0.250           ie         3.00         SW846 8260         Trichloroethene         0.250           ie         3.70         SW846 8260         Trichloroethene         0.250           ie         0.300         SW846 8260         Vinyl acetate         1.50           ie         0.250         SW846 8260         Vinyl acetate         1.50           ie         0.250         SW846 8260         Vinyl chloride         0.50           ie         0.250         SW846 8260         Xylene         0.50           ie         0.500         SW846 8260         trans-1,2-Dichloropropene         0.250           ie         0.250         SW846 8260         trans-1,2-Dichloropropene         0.250           ie         0.250         SW846 8260         trans-1,2-Dichloropropene         0.250           ie         0.250         SW846 8260         trans-1,4-Dichloro-2-buttene         0.250	2-Butanone	1.25	SW846 8260	Methyl methacrylate	1.00	SW846 8260
ie         1.25         SW846 8260         Pentachloroethane         1.00           1.25         SW846 8260         Styrene         0.250           3.00         SW846 8260         Tolluene         0.250           1.00         SW846 8260         Trichloroethene         0.250           0.300         SW846 8260         Trichlorofluoromethane         0.250           0.300         SW846 8260         Vinyl acetate         1.50           e         0.250         SW846 8260         Vinyl chloride         0.500           e         0.250         SW846 8260         Vinyl chloride         0.500           0.250         SW846 8260         Vinyl chloride         0.250           1.25         SW846 8260         sis-Chloroisopropyl ether         1.50           0.500         SW846 8260         trans-1,3-Dichlorophene         0.250           0.250         SW846 8260         trans-1,3-Dichlorophene         0.250           0.250         SW846 8260         trans-1,3-Dichlorophene         0.250	2-Hexanone	1.25	SW846 8260	Methylene chloride	2.00	SW846 8260
1.25         SWW46 8260         Etrachloroethene         0.250           3.00         SWW46 8260         Tetrachloroethene         0.250           1.00         SWW46 8260         Trichloroethene         0.250           3.70         SWW46 8260         Trichloroethene         0.250           e         0.300         SWW46 8260         Vinyl acetate         1.50           e         0.250         SWW46 8260         Vinyl chloride         0.500           e         0.250         SWW46 8260         Vinyl chloride         0.250           0.500         SWW846 8260         bis-Chloroisopropyl ether         1.50           1.25         SWW846 8260         trans-1,3-Dichloropropene         0.250           0.250         SWW846 8260         trans-1,3-Dichloropropene         0.250	4-methyl-, 2-Pentanone	1.25	SW846 8260	Pentachloroethane	1.00	SW846 8260
6.25         SW846 8260         Tetrachloroethene         0.250           3.00         SW846 8260         Toluene         0.250           1.00         SW846 8260         Trichloroethene         0.250           e         0.300         SW846 8260         Trichlorofluoromethane         0.310           e         0.250         SW846 8260         Vinyl chloride         0.500           e         0.250         SW846 8260         Vinyl chloride         0.250           0.500         SW846 8260         Xylene         0.250           1.25         SW846 8260         cis-1,3-Dichloropropene         0.250           0.250         SW846 8260         trans-1,2-Dichloroethene         0.250	Acetone	1.25	SW846 8260	Styrene	0.250	SW846 8260
3.00         SW846 8260         Toluene         0.250           1.00         SW846 8260         Trichloroethene         0.250           e         0.300         SW846 8260         Vinyl acetate         1.50           e         0.250         SW846 8260         Vinyl chloride         0.500           e         0.250         SW846 8260         Xylene         0.250           f         0.500         SW846 8260         is-Chloroisopropyl ether         1.50           f         0.250         SW846 8260         irans-1,3-Dichloroptopene         0.250           f         0.250         SW846 8260         trans-1,2-Dichloroptopene         0.250           f         0.250         SW846 8260         trans-1,3-Dichloroptopene         0.250           f         0.250         SW846 8260         trans-1,3-Dichloroptopene         0.250           f         0.250         SW846 8260         trans-1,4-Dichloro-2-butene         1.00	Acetonitrile	6.25	SW846 8260	Tetrachloroethene	0.250	SW846 8260
1.00         SW846 8260         Trichloroethene         0.250           3.70         SW846 8260         Trichlorofluoromethane         0.310           e         0.300         SW846 8260         Vinyl acetate         1.50           e         0.250         SW846 8260         Vinyl chloride         0.500           sw846 8260         SW846 8260         Aylene         0.250           1.25         SW846 8260         trans-1,3-Dichloroptopene         0.250           sw846 8260         trans-1,2-Dichloroethene         0.300           sw846 8260         trans-1,3-Dichloroptopene         0.250           sw846 8260         trans-1,3-Dichloroptopene         0.250           sw846 8260         trans-1,4-Dichloroptopene         0.250	Acrolein	3.00	SW846 8260	Toluene	0.250	SW846 8260
a. 70         SW846 8260         Trichlorofluoromethane         0.310           e         0.300         SW846 8260         Vinyl acetate         1.50           e         0.250         SW846 8260         Vinyl chloride         0.250           0.250         SW846 8260         Xylene         0.250           1.25         SW846 8260         cis-1,3-Dichloropropene         0.250           0.250         SW846 8260         trans-1,2-Dichloropthene         0.250           0.250         SW846 8260         trans-1,3-Dichloropthene         0.250           0.250         SW846 8260         trans-1,3-Dichloropthene         0.250           0.250         SW846 8260         trans-1,4-Dichloroptopene         0.250	Acrylonitrile	1.00	SW846 8260	Trichloroethene	0.250	SW846 8260
e         0.300         SW846 8260         Vinyl acetate         1.50           e         0.250         SW846 8260         Vinyl chloride         0.500           0.250         SW846 8260         Xylene         0.250           1.25         SW846 8260         cis-1,3-Dichloropropene         0.250           0.250         SW846 8260         trans-1,2-Dichloroethene         0.300           0.250         SW846 8260         trans-1,3-Dichloropropene         0.250           0.250         SW846 8260         trans-1,3-Dichloropropene         0.250           0.250         SW846 8260         trans-1,3-Dichloropropene         0.250           0.250         SW846 8260         trans-1,4-Dichloro-2-butene         0.250	Allyl chloride	3.70	SW846 8260	Trichlorofluoromethane	0.310	SW846 8260
e         0.250         SW846 8260         Vinyl chloride         0.500           0.250         SW846 8260         Xylene         0.250           1.25         SW846 8260         bis-Chloroisopropyl ether         1.50           0.250         SW846 8260         cis-1,3-Dichloropropene         0.250           0.250         SW846 8260         trans-1,2-Dichloropropene         0.300           0.250         SW846 8260         trans-1,3-Dichloropropene         0.250           0.250         SW846 8260         trans-1,3-Dichloropropene         0.250           0.500         SW846 8260         trans-1,4-Dichloro-2-butene         1.00	Benzene	0.300	SW846 8260	Vinyl acetate	1.50	SW846 8260
0.250         SW846 8260         Xylene         0.250           0.500         SW846 8260         bis-Chloroisopropyl ether         1.50           1.25         SW846 8260         cis-1,3-Dichloropropene         0.250           0.250         SW846 8260         trans-1,2-Dichloroethene         0.300           0.250         SW846 8260         trans-1,3-Dichloropene         0.250           0.500         SW846 8260         trans-1,4-Dichloropene         1.00	Bromodichloromethane	0.250	SW846 8260	Vinyl chloride	0.500	SW846 8260
0.500         SW846 8260         bis-Chloroisopropyl ether         1.50           1.25         SW846 8260         cis-1,3-Dichloropropene         0.250           0.250         SW846 8260         trans-1,2-Dichloropropene         0.300           0.250         SW846 8260         trans-1,3-Dichloropropene         0.250           0.500         SW846 8260         trans-1,4-Dichloro-2-butene         1.00	Bromoform	0.250	SW846 8260	Xylene	0.250	SW846 8260
1.25         SW846 8260         cis-1,3-Dichloropropene         0.250           0.250         SW846 8260         trans-1,2-Dichloroethene         0.300           0.250         SW846 8260         trans-1,3-Dichloropropene         0.250           0.500         SW846 8260         trans-1,4-Dichloro-2-butene         1.00	Bromomethane	0.500	SW846 8260	bis-Chloroisopropyl ether	1.50	SW846 8260
0.250         SW846 8260         trans-1,2-Dichloroethene         0.300           0.250         SW846 8260         trans-1,3-Dichloropropene         0.250           0.500         SW846 8260         trans-1,4-Dichloro-2-butene         1.00	Carbon disulfide	1.25	SW846 8260	cis-1,3-Dichloropropene	0.250	SW846 8260
0.250         SW846 8260         trans-1,3-Dichloropropene         0.250           SW846 8260         trans-1,4-Dichloro-2-butene         1.00	Carbon tetrachloride	0.250	SW846 8260	trans-1,2-Dichloroethene	0.300	SW846 8260
0.500 SW846 8260 trans-1,4-Dichloro-2-butene 1.00	Chlorobenzene	0.250	SW846 8260	trans-1,3-Dichloropropene	0.250	SW846 8260
	Chloroethane	0.500	SW846 8260	trans-1,4-Dichloro-2-butene	1.00	SW846 8260

**APPENDICES** 

Table CWL B-3
Method Detection Limits for Appendix IX Semi-Volatile Organic Compounds
Chemical Waste Landfill Groundwater Monitoring

Analyte	(hg/L)	Analytical Method <sup>g</sup>	Analyte	MDL <sup>b</sup> (µg/L)	Analytical Method <sup>g</sup>
.alpha.,.alpha. Dimethylphenethylamine	3.85 - 4.4	SW846 8270	3-Nitroaniline	1.92 - 2.2	SW846 8270
1,2,4,5-Tetrachlorobenzene	1.92 - 2.2	SW846 8270	3-benzodioxole, 5-(2-Propenyl)-1	1.92 - 2.2	SW846 8270
1,2,4-Trichlorobenzene	1.92 - 2.2	SW846 8270	4-Aminobiphenyl	2.88 - 3.3	SW846 8270
1,2-Dichlorobenzene	1.92 - 2.2	SW846 8270	4-Bromophenyl phenyl ether	1.92 - 2.2	SW846 8270
1,2-Diphenylhydrazine	1.92 - 2.2	SW846 8270	4-Chloro-3-methylphenol	1.92 - 2.2	SW846 8270
1,3,5-Trinitrobenzene	1.92 - 2.2	SW846 8270	4-Chlorobenzenamine	1.92 - 2.2	SW846 8270
1,3-Dichlorobenzene	1.92 - 2.2	SW846 8270	4-Chlorophenyl phenyl ether	1.92 - 2.2	SW846 8270
1,3-Dinitrobenzene	1.92 - 2.2	SW846 8270	4-Dimethylaminoazobenzene	1.92 - 2.2	SW846 8270
1,4-Dichlorobenzene	1.92 - 2.2	SW846 8270	4-Nitroaniline	2.88 - 3.3	SW846 8270
1,4-Dioxane	0.962 - 1.1	SW846 8270	4-Nitrophenol	1.92 - 2.2	SW846 8270
1,4-Naphthoquinone	1.92 - 2.2	SW846 8270	4-Nitroquinoline-1-oxide	2.88 - 3.3	SW846 8270
1-Methylnaphthalene	0.288 - 0.33	SW846 8270	5-Nitro-o-toluidine	1.92 - 2.2	SW846 8270
1-Naphthylamine	1.92 - 2.2	SW846 8270	7,12-Dimethylbenz(a)anthrace	1.92 - 2.2	SW846 8270
2,3,4,6-Tetrachlorophenol	1.92 - 2.2	SW846 8270	Acenaphthene	0.298 - 0.341	SW846 8270
2,4,5-Trichlorophenol	0.962 - 1.1	SW846 8270	Acenaphthylene	0.192 - 0.22	SW846 8270
2,4,6-Trichlorophenol	1.92 - 2.2	SW846 8270	Acetophenone	1.92 - 2.2	SW846 8270
2,4-Dichlorophenol	1.92 - 2.2	SW846 8270	Aniline	2.4 - 2.75	SW846 8270
2,4-Dimethylphenol	1.92 - 2.2	SW846 8270	Anthracene	0.192 - 0.22	SW846 8270
2,4-Dinitrophenol	9.62 - 11	SW846 8270	Aramite	2.88 - 3.3	SW846 8270
2,4-Dinitrotoluene	1.92 - 2.2	SW846 8270	Benzidine	1.92 - 2.2	SW846 8270
2,6-Dichlorophenol	1.92 - 2.2	SW846 8270	Benzo(a)anthracene	0.192 - 0.22	SW846 8270
2,6-Dinitrotoluene	1.92 - 2.2	SW846 8270	Benzo(a)pyrene	0.192 - 0.22	SW846 8270
2-Acetylaminofluorene	1.92 - 2.2	SW846 8270	Benzo(b)fluoranthene	0.192 - 0.22	SW846 8270
2-Chloronaphthalene	0.337 - 0.385	SW846 8270	Benzo(ghi)perylene	0.192 - 0.22	SW846 8270
2-Chlorophenol	1.92 - 2.2	SW846 8270	Benzo(k)fluoranthene	0.192 - 0.22	SW846 8270
2-Methylnaphthalene	0.288 - 0.33	SW846 8270	Benzoic acid	5.77 - 6.59	SW846 8270
2-Methylpyridine	1.92 - 2.2	SW846 8270	Benzyl alcohol	1.92 - 2.2	SW846 8270
2-Naphthalenamine	1.92 - 2.2	SW846 8270	Butylbenzyl phthalate	1.92 - 2.2	SW846 8270
2-Nitroaniline	1.92 - 2.2	SW846 8270	Carbazole	0.192 - 0.22	SW846 8270
2-Nitrophenol	1.92 - 2.2	SW846 8270	Chlorobenzilate	1.92 - 2.2	SW846 8270
3,3'-Dichlorobenzidine	0.962 - 1.1	SW846 8270	Chrysene	0.192 - 0.22	SW846 8270
3,3'-Dimethylbenzidine	1.92 - 2.2	SW846 8270	Di-n-butyl phthalate	1.92 - 2.2	SW846 8270
3-Methylcholanthrene Refer to footnotes on page 29.	1.92 - 2.2	SW846 8270	Di-n-octyl phthalate	2.88 - 3.3	SW846 8270

APPENDICES B-7

## **Table CWL B-3** (Concluded) Method Detection Limits for Appendix IX Semi-Volatile Organic Compounds Chemical Waste Landfill Groundwater Monitoring

#### Fiscal Year 2006

Debengia         192, 22         SWN846 8270         O LO-Trefthylphosphorotholate         192, 22         SWN846 8270         Pentantion Debengia         192, 22         SWN846 8270         Pentantion Debengia <th>Analyte</th> <th>MDL<sup>b</sup> (µg/L)</th> <th>Analytical Method<sup>9</sup></th> <th>Analyte</th> <th>MDL<sup>b</sup> (µg/L)</th> <th>Analytical Method<sup>9</sup></th>	Analyte	MDL <sup>b</sup> (µg/L)	Analytical Method <sup>9</sup>	Analyte	MDL <sup>b</sup> (µg/L)	Analytical Method <sup>9</sup>
thracene         0.192 - 0.22         SW4946 8270         Pernatchlocheracene         2.88 - 3.3           tee         1.92 - 2.2         SW646 8270         Pernatchlocochance         1.92 - 2.2           tee         1.92 - 2.2         SW646 8270         Pernatchlocochance         1.92 - 2.2           tee         1.92 - 2.2         SW646 8270         Pernatchlocophenol         1.92 - 2.2           sweed 8.33         SW646 8270         Pernatchlocophenol         1.92 - 2.2           sweed 8.33         SW646 8270         Phenocental         1.92 - 2.2           swiftchele         1.92 - 2.2         SW646 8270         Phenocental         1.92 - 2.2           swiftchele         1.92 - 2.2         SW646 8270         Phonatchlocophenol         1.92 - 2.2           swiftchele         1.92 - 2.2         SW646 8270         Phonatchlocophenol         1.92 - 2.2           swiftchele         1.92 - 2.2         SW646 8270         Phonatchlocophenol         1.92 - 2.2           swiftchele         1.92 - 2.2         SW646 8270         Phonatchlocophenol         1.92 - 2.2           swiftchele         1.92 - 2.2         SW646 8270         Phonatchlocophenol         1.92 - 2.2           swiftchele         1.92 - 2.2         SW646 8270         Phonatchlocophenol	Diallate	1.92 - 2.2	SW846 8270	O,O,O-Triethylphosphorothioate	1.92 - 2.2	SW846 8270
te 1.92 - 22 SW446 6270 Pentachloroberane 1.92 - 22 SW446 6270 Pentachloropteane 1.92 - 22 SW446 6270 Promide	Dibenz[a,h]anthracene	0.192 - 0.22	SW846 8270	Parathion	2.88 - 3.3	SW846 8270
tee         192 - 22         SWW446 8270         Perntachloroceltrane         1.92 - 22           late         1.92 - 22         SWW446 8270         Perntachlorophenol         1.92 - 22           late         2.88 - 3.3         SWW446 8270         Phenadrinorelicophenol         1.92 - 22           late         2.88 - 3.3         SWW46 8270         Phenadrinorelicophenol         1.92 - 22           late         2.88 - 3.3         SWW46 8270         Phenadrinorelicophenol         0.962 - 1.1           e         2.88 - 3.3         SWW46 8270         Phenadrinorelicophenol         0.962 - 1.1           e         2.88 - 3.3         SWW46 8270         Phenadrinorelicophenol         0.962 - 1.1           e         1.92 - 2.2         SWW46 8270         Pricene         0.962 - 1.1           sulforate         1.92 - 2.2         SWW46 8270         Pyrene         0.962 - 1.2           col.192 - 0.22         SWW46 8270         Thionazin         1.92 - 2.2           cadene         1.92 - 2.2         SWW46 8270         DisC.Chlorocethoxy/mether         1.92 - 2.2           since         1.92 - 2.2         SWW46 8270         DisC.Chloroscopoly ether         1.92 - 2.2           since         1.92 - 2.2         SWW46 8270         Invitroscolimphylamine	Dibenzofuran	1.92 - 2.2	SW846 8270	Pentachlorobenzene	1.92 - 2.2	SW846 8270
late         192 - 2.2         SW848 B270         Pentachloronirobenzene         192 - 2.2           sl         1.92 - 2.2         SW848 B270         Phenachlorophenoi         1.92 - 2.2           sl         2.88 - 3.3         SW848 B270         Phenachlorophenoi         0.192 - 0.2           e         1.92 - 2.2         SW848 B270         Phenachlorophenoi         0.192 - 0.2           e         1.92 - 2.2         SW848 B270         Phenachlorophenoi         0.192 - 0.2           sulfonate         1.92 - 2.2         SW848 B270         Promanide         0.192 - 0.2           sulfonate         1.92 - 2.2         SW848 B270         Promanide         0.288 - 0.3           sulfonate         1.92 - 2.2         SW848 B270         Pridne         0.288 - 0.3           copienadene         0.192 - 0.2         SW848 B270         Tributylphosphate         1.92 - 2.           copienadene         1.92 - 2.2         SW848 B270         Tributylphosphate         1.92 - 2.           suppene         1.92 - 2.2         SW848 B270         Dis-Chlorocthylamine         1.92 - 2.           suppene         1.92 - 2.2         SW848 B270         Dis-Chlorocthylamine         1.92 - 2.           copienadene         1.92 - 2.2         SW848 B270         N-Nitros	Diethylphthalate	1.92 - 2.2	SW846 8270	Pentachloroethane	1.92 - 2.2	SW846 8270
182 - 2.2   SW846 8270   Pentachlorophenol   192 - 2.2     188 - 3.3   SW846 8270   Phenaterin   1.92 - 2.2     192 - 2.2   SW846 8270   Phenathrene   0.192 - 0.2     192 - 2.2   SW846 8270   Phenathrene   0.192 - 0.2     192 - 2.2   SW846 8270   Phenathrene   0.192 - 0.2     192 - 2.2   SW846 8270   Phenathrene   0.288 - 0.3     192 - 2.2   SW846 8270   Pyrene   0.288 - 0.3     192 - 2.2   SW846 8270   Pyrene   0.982 - 1.1     192 - 2.2   SW846 8270   Pyrene   0.982 - 1.1     192 - 2.2   SW846 8270   Pyrene   0.982 - 1.1     192 - 2.2   SW846 8270   Thionazin   1.92 - 2.2     192 - 2.2   SW846 8270   Thionazin   1.92 - 2.2     192 - 2.2   SW846 8270   Dist_C-Chloroethylyether   1.92 - 2.2     192 - 2.2   SW846 8270   Dist_C-Chloroethylyether   1.92 - 2.2     192 - 2.2   SW846 8270   Dist_C-Chloroethylyether   1.92 - 2.2     192 - 2.2   SW846 8270   Dist_C-Chloroethylyether   1.92 - 2.2     192 - 2.2   SW846 8270   Dist_C-Chloroethylyether   1.92 - 2.2     192 - 2.2   SW846 8270   Dist_C-Chloroethylyether   1.92 - 2.2     192 - 2.2   SW846 8270   Dist_C-Chloroethylyether   1.92 - 2.2     192 - 2.2   SW846 8270   Dist_C-Chloroethylyether   1.92 - 2.2     192 - 2.2   SW846 8270   Dist_C-Chloroethylyethylethylethylethylethylethylethy	Dimethoate	1.92 - 2.2	SW846 8270	Pentachloronitrobenzene	1.92 - 2.2	SW846 8270
yill         2.88 - 3.3         SW846 8270         Phenaretin         1.92 - 2.2           e         2.88 - 3.3         SW846 8270         Phenarithrene         0.192 - 0.22           e         2.88 - 3.3         SW846 8270         Phorate         1.92 - 2.2           Alate         1.92 - 2.2         SW846 8270         Promande         1.92 - 2.2           sulformate         1.92 - 2.2         SW846 8270         Pytene         0.282 - 1.1           sulformate         1.92 - 2.2         SW846 8270         Pytene         0.282 - 1.2           sulformate         1.92 - 2.2         SW846 8270         Pytene         0.282 - 1.1           construction         0.192 - 0.22         SW846 8270         Pytene         0.282 - 1.1           construction         0.192 - 0.22         SW846 8270         Thionachylother         1.92 - 2.2           sulpopentadiene         1.92 - 2.2         SW846 8270         bisi2-Chlorochoxylynether         1.92 - 2.2           suppere         1.92 - 2.2         SW846 8270         bisi2-Chlorochoxylynether         1.92 - 2.2           spene         1.92 - 2.2         SW846 8270         n-Nitrosocial childrainine         1.92 - 2.2           spene         1.92 - 2.2         SW846 8270         n-Nitrosocial childra	Dimethylphthalate	1.92 - 2.2	SW846 8270	Pentachlorophenol	1.92 - 2.2	SW846 8270
e         132 - 2.2         SW846 8270         Phenol         0.192 - 0.2           e         2.88 - 3.3         SW846 8270         Phenol         0.0562 - 1.1           falte         1.92 - 2.2         SW846 8270         Phorate         1.92 - 2.2           sulfonate         1.92 - 2.2         SW846 8270         Pyrene         1.92 - 2.2           sulfonate         1.92 - 2.2         SW846 8270         Pyrene         0.288 - 0.33           sulfonate         1.92 - 2.2         SW846 8270         Pyrene         0.288 - 0.3           nzene         1.92 - 0.2         SW846 8270         Tributyphosphate         1.92 - 2.2           siopeniadiene         1.92 - 2.2         SW846 8270         Tributyphosphate         1.92 - 2.2           siopeniadiene         1.92 - 2.2         SW846 8270         Disig-C-chloroethoxy)methane         1.92 - 2.2           siopeniadiene         1.92 - 2.2         SW846 8270         Disig-C-chloroethoxy)methane         1.92 - 2.2           spene         1.92 - 2.2         SW846 8270         Disig-C-chloroethoxy)methane         1.92 - 2.2           spene         1.92 - 2.2         SW846 8270         In-Mitrosocial methylamine         1.92 - 2.2           suppene         1.92 - 2.2         SW846 8270         In	Dinitro-o-cresol	2.88 - 3.3	SW846 8270	Phenacetin	1.92 - 2.2	SW846 8270
ee         2.88 3.3         SW846 8270         Phenol         0.962 -1.1           flate         1.92 - 2.2         SW846 8270         Phorate         1.92 - 2.2           flate         1.92 - 2.2         SW846 8270         Promaide         1.92 - 2.2           sulforate         1.92 - 2.2         SW846 8270         Pyridine         0.288 - 0.33           sulforate         1.92 - 2.2         SW846 8270         Pyridine         0.962 - 1.1           nene         1.92 - 2.2         SW846 8270         Pyridine         0.962 - 1.1           nene         1.92 - 2.2         SW846 8270         Tributyphosphate         1.92 - 2.2           siopentaciene         1.92 - 2.2         SW846 8270         DisC-Chloroethoxymethane         1.92 - 2.2           siopentaciene         1.92 - 2.2         SW846 8270         DisC-Chloroethoxymethane         1.92 - 2.2           siopentaciene         1.92 - 2.2         SW846 8270         DisC-Chloroethoxymethane         1.92 - 2.2           spene         1.92 - 2.2         SW846 8270         Instruscodipropylatine         1.92 - 2.2           spene         1.92 - 2.2         SW846 8270         Instruscodipropylatinine         1.92 - 2.2           spene         1.92 - 2.2         SW846 8270         Instrusc	Dinoseb	1.92 - 2.2	SW846 8270	Phenanthrene	0.192 - 0.22	SW846 8270
Jabe         Jabe         Phorate         1.92 - 2.2           Jable         192 - 2.2         SW846 8270         Pronamide         1.92 - 2.2           Sulfonate         192 - 2.2         SW846 8270         Pyridine         1.92 - 2.2           Sulforate         1.92 - 2.2         SW846 8270         Pyridine         0.982 - 1.1           Acene         0.192 - 0.2         SW846 8270         Pyridine         0.982 - 1.1           Acene         1.92 - 2.2         SW846 8270         Tributylphosphate         1.92 - 2.2           Acene         1.92 - 2.2         SW846 8270         Dis/C-Chloroethoxymethane         1.92 - 2.2           Since and all acene         1.92 - 2.2         SW846 8270         Dis/C-Chloroethoxymethane         1.92 - 2.2           Since and acene         1.92 - 2.2         SW846 8270         Dis/C-Chloroethylphate         1.92 - 2.2           Since and acene         1.92 - 2.2         SW846 8270         In-Mitrosodientylphatine         1.92 - 2.2           Acene         1.92 - 2.2         SW846 8270         In-Mitrosodientylphatine         1.92 - 2.2           Acene         1.92 - 2.2         SW846 8270         In-Mitrosodientylphatine         1.92 - 2.2           Acente         1.92 - 2.2         SW846 8270         In-Mit	Diphenyl amine	2.88 - 3.3	SW846 8270	Phenol	0.962 - 1.1	SW846 8270
/late         1.92 - 2.2         SW846 8270         Pronamide         1.92 - 2.2           sulforate         1.92 - 2.2         SW846 8270         Pyrene         0.288 - 0.33           sulforate         1.92 - 2.2         SW846 8270         Pyridne         0.362 - 1.1           chee         0.192 - 0.22         SW846 8270         Tributyphosphate         1.92 - 2.2           radene         1.92 - 2.2         SW846 8270         Tributyphosphate         1.92 - 2.2           siopentadiene         1.92 - 2.2         SW846 8270         Dis(2-Chlorosethoxy)methane         2.88 - 3.3           siopentadiene         1.92 - 2.2         SW846 8270         Dis(2-Chlorosethoxy)methane         1.92 - 2.2           ene         1.92 - 2.2         SW846 8270         Dis(2-Chlorosethoxy)methane         1.92 - 2.2           spene         1.92 - 2.2         SW846 8270         Dis(2-Chlorosethoxy)mether         1.92 - 2.2           spene         1.92 - 2.2         SW846 8270         In-Mitrosodiethylamine         1.92 - 2.2           spene         1.92 - 2.2         SW846 8270         In-Mitrosodiethylamine         1.92 - 2.2           spene         1.92 - 2.2         SW846 8270         In-Mitrosodiethylamine         1.92 - 2.2           spene         1.92 - 2.2	Disulfoton	1.92 - 2.2	SW846 8270	Phorate	1.92 - 2.2	SW846 8270
sulfonate         192 - 2.2         SW846 8270         Pyrene         0.288 - 0.33           reache         1.92 - 2.2         SW846 8270         Pyridine         0.962 - 1.1           reache         0.192 - 0.22         SW846 8270         Tribux/phosphate         1.92 - 2.2           radiene         1.92 - 2.2         SW846 8270         Tribux/phosphate         1.92 - 2.2           sadene         1.92 - 2.2         SW846 8270         Tribux/phosphate         1.92 - 2.2           sadene         1.92 - 2.2         SW846 8270         Tribux/phosphate         1.92 - 2.2           sane         1.92 - 2.2         SW846 8270         Tribux/phosphate         1.92 - 2.2           sane         1.92 - 2.2         SW846 8270         DisC-Chloroethyl)ether         1.92 - 2.2           sane         1.92 - 2.2         SW846 8270         In-Nitroso-di-n-but/amine         1.92 - 2.2           spene         0.192 - 0.22         SW846 8270         In-Nitrosodiethylamine         1.92 - 2.2           sylyate         1.92 - 2.2         SW846 8270         In-Nitrosomethylethylamine         1.92 - 2.2           sylyate         1.92 - 2.2         SW846 8270         In-Nitrosomethylethylamine         1.92 - 2.2           sylyate         1.92 - 2.2         SW846 8270	Ethyl methacrylate	1.92 - 2.2	SW846 8270	Pronamide	1.92 - 2.2	SW846 8270
1.92 - 2.2         SW846 8270         Pyridine         0.962 - 1.1           Tache         0.192 - 0.22         SW846 8270         Sulfotepp         1.92 - 2.2           Trache         0.192 - 0.22         SW846 8270         Tributyphosphate         1.92 - 2.2           sidene         1.92 - 2.2         SW846 8270         bis(2-Chloroethyylether         1.92 - 2.2           siopenatadiene         1.92 - 2.2         SW846 8270         bis(2-Chloroethyylether         1.92 - 2.2           sine         1.92 - 2.2         SW846 8270         bis(2-Chloroethyylether         1.92 - 2.2           sine         1.92 - 2.2         SW846 8270         bis(2-Chloroethyylether         1.92 - 2.2           spene         1.92 - 2.2         SW846 8270         bis(2-Chloroethyylether         1.92 - 2.2           spene         1.92 - 2.2         SW846 8270         n-Nitrosodiethylamine         1.92 - 2.2           sylyatene         1.92 - 2.2         SW846 8270         n-Nitrosodiethylamine         1.92 - 2.2           sylyatene         1.92 - 2.2         SW846 8270         n-Nitrosodiethylamine         1.92 - 2.2           sylyatene         1.92 - 2.2         SW846 8270         n-Nitrosodiethylamine         1.92 - 2.2           sylyatene         1.92 - 2.2         SW846	Ethyl methanesulfonate	1.92 - 2.2	SW846 8270	Pyrene	0.288 - 0.33	SW846 8270
no. 192 - 0.22         SW846 8270         Sulfotepp         1.92 - 2.2           racene         1.92 - 0.22         SW846 8270         Thionazin         1.92 - 2.2           sadiene         1.92 - 2.2         SW846 8270         Tributylphosphate         1.92 - 2.2           stopentadiene         1.92 - 2.2         SW846 8270         bis(2-Chlorochtoxy)methane         2.88 - 3.3           stopentadiene         1.92 - 2.2         SW846 8270         bis(2-Chlorochtoxy)methane         1.92 - 2.2           sine         1.92 - 2.2         SW846 8270         bis(2-Chlorochtoxy)methane         1.92 - 2.2           sine         1.92 - 2.2         SW846 8270         bis-Chlorosphotylether         1.92 - 2.2           sipene         1.92 - 2.2         SW846 8270         n-Nitroso-dientylamine         1.92 - 2.2           sipene         1.92 - 2.2         SW846 8270         n-Nitrosodientylamine         1.92 - 2.2           sipene         1.92 - 2.2         SW846 8270         n-Nitrosodientylamine         1.92 - 2.2           sipene         1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           sipene         1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           sipene         1.92 - 2.2	Famphur	1.92 - 2.2	SW846 8270	Pyridine	0.962 - 1.1	SW846 8270
nzene         0.192 - 0.22         \$WW46 B270         Thionazin         1.92 - 2.2           nzene         1.92 - 2.2         \$SW846 B270         Tributylphosphate         1.92 - 2.2           sidjente         1.92 - 2.2         \$SW846 B270         bis(2-Chloroethoxy)methane         2.88 - 3.3           siopentadiene         1.92 - 2.2         \$SW846 B270         bis(2-Chloroethyy)ether         1.92 - 2.2           ane         1.92 - 2.2         \$SW846 B270         bis(2-Chlorostorpyl ether         1.92 - 2.2           spene         1.92 - 2.2         \$SW846 B270         m.p.Criscopropyl ether         1.92 - 2.2           dipyrene         0.192 - 0.2         \$SW846 B270         n-Nitrosodiethylamine         1.92 - 2.2           1.92 - 2.2         \$SW846 B270         n-Nitrosodiethylamine         1.92 - 2.2           1.92 - 2.2         \$SW846 B270         n-Nitrosodiethylamine         1.92 - 2.2           1.92 - 2.2         \$SW846 B270         n-Nitrosodipropylamine         1.92 - 2.2           1.92 - 2.2         \$SW846 B270         n-Nitrosodipropylamine         1.92 - 2.2           1.92 - 2.2         \$SW846 B270         n-Nitrosodipropylamine         1.92 - 2.2           1.92 - 2.2         \$SW846 B270         n-Nitrosodipropylamine         1.92 - 2.2	Fluoranthene	0.192 - 0.22	SW846 8270	Sulfotepp	1.92 - 2.2	SW846 8270
nzene         1.92 - 2.2         SW846 8270         Tributyphosphate         1.92 - 2.2           sidiene         1.92 - 2.2         SW846 8270         bis(2-Chloroethoxy)methane         2.88 - 3.3           slopentadiene         1.92 - 2.2         SW846 8270         bis(2-Chloroethoxy)methane         1.92 - 2.2           snee         1.92 - 2.2         SW846 8270         bis(2-Ehylhexyl)phthalate         1.92 - 2.2           snee         1.92 - 2.2         SW846 8270         bis(2-Chloroethoxy)methane         1.92 - 2.2           spene         1.92 - 2.2         SW846 8270         n-Nitrosodiethylamine         1.92 - 2.2           shyprene         0.192 - 0.22         SW846 8270         n-Nitrosodiethylamine         1.92 - 2.2           shyprene         1.92 - 2.2         SW846 8270         n-Nitrosodimethylamine         1.92 - 2.2           shyprene         1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           shyprene         1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           shyprene         1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           shyprene         1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2      <	Fluorene	0.192 - 0.22	SW846 8270	Thionazin	1.92 - 2.2	SW846 8270
tadiene         1.92 - 2.2         SW846 8270         bis(2-Chloroethoxy)methane         2.88 - 3.3           slopentadiene         1.92 - 2.2         SW846 8270         bis(2-Chloroethyl)ether         1.92 - 2.2           ane         1.92 - 2.2         SW846 8270         bis(2-Chloroethyl)phthalate         1.92 - 2.2           ane         1.92 - 2.2         SW846 8270         bis-Chloroisopropyl ether         1.92 - 2.2           apene         1.92 - 2.2         SW846 8270         n-Nitroso-di-n-butylamine         2.88 - 3.3           i.d)byrene         0.182 - 0.22         SW846 8270         n-Nitrosodinethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosodinethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomethylethylethylethylethylethylethylethyl	Hexachlorobenzene	1.92 - 2.2	SW846 8270	Tributylphosphate	1.92 - 2.2	SW846 8270
slopentadiene         1.92 - 2.2         SW846 8270         bis(2-Ethylhexyl)phthalate         1.92 - 2.2           ane         1.92 - 2.2         SW846 8270         bis(2-Ethylhexyl)phthalate         1.92 - 2.2           ane         1.92 - 2.2         SW846 8270         bis(2-Ethylhexyl)phthalate         1.92 - 2.2           apene         1.92 - 2.2         SW846 8270         n.p-Cresol         2.88 - 3.3           papene         0.192 - 0.2         SW846 8270         n-Nitrosodiethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosodiethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosodiethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosodipropylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosopiperidine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosopiperidine         1.92 - 2.2           1.92 - 2.2         SW846 8270         0-Cresol         1.92 - 2.2           1.92 - 2.2         SW846 8270         0-Di	Hexachlorobutadiene	1.92 - 2.2	SW846 8270	bis(2-Chloroethoxy)methane	2.88 - 3.3	SW846 8270
ane         1.92 - 2.2         SW846 8270         bis(2-Ethylhexyl)phthalate         1.92 - 2.2           ane         192 - 2.2         SW846 8270         bis-Chloroisopropyl ether         1.92 - 2.2           apene         1.92 - 2.2         SW846 8270         n.p-Cresol         2.88 - 3.3           Ad)pyrene         0.192 - 0.22         SW846 8270         n-Nitrosodiethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosodimethylamine         1.92 - 2.2         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomorpholine         1.92 - 2.2         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomorpholine         1.92 - 2.2         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2           1.92 - 2.2         SW846 8270         0-Cresol         1.92 - 2.2           1.92 - 2.2         SW846 8270         0-Toluidine         1.92 - 2.2           1.92 - 2.2         SW846 8270         0-Toluidine         1.92 - 2.2	Hexachlorocyclopentadiene	1.92 - 2.2	SW846 8270	bis(2-Chloroethyl)ether	1.92 - 2.2	SW846 8270
ene         192 - 220         SW846 8270         bis-Chloroisopropyl ether         1.92 - 2.2           ppene         1.92 - 2.2         SW846 8270         m.p-Cresol         2.88 - 3.3           .,d)pyrene         0.192 - 0.22         SW846 8270         n-Nitrosodiethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosodiethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosodimethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomorpholine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomorpholine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Ocresol         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Ocresol         1.92 - 2.2           1.92 - 2.2         SW846 8270         1.92 - 2.2         1.92 - 2.2           1.92 -	Hexachloroethane	1.92 - 2.2	SW846 8270	bis(2-Ethylhexyl)phthalate	1.92 - 2.2	SW846 8270
ppene         1.92 - 2.2         SWW846 8270         m.p-Cresol         2.88 - 3.3           i.d)pyrene         0.192 - 0.22         SWW846 8270         n-Nitroso-di-n-butylamine         1.92 - 2.2           1.92 - 2.2         SWW846 8270         n-Nitrosodimethylamine         1.92 - 2.2           1.92 - 2.2         SWW846 8270         n-Nitrosodimethylamine         1.92 - 2.2           1.92 - 2.2         SWW846 8270         n-Nitrosodipropylamine         1.92 - 2.2           1.92 - 2.2         SWW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           1.92 - 2.2         SWW846 8270         n-Nitrosopiperidine         1.92 - 2.2           1.92 - 2.2         SWW846 8270         n-Nitrosopiperidine         1.92 - 2.2           In 1.92 - 2.2         SWW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2           In 1.92 - 2.2         SWW846 8270         n-Oresol         1.92 - 2.2           In 1.92 - 2.2         SWW846 8270         n-Oresol         1.92 - 2.2           In 1.92 - 2.2         SWW846 8270         n-Orlidine         1.92 - 2.2           In 1.92 - 2.2         SWW846 8270         n-Orlidine         1.92 - 2.2           In 1.92 - 2.2         SWW846 8270         n-Orlidine         1.92 - 2.2           In 1.92 - 2.2<	Hexachlorophene	192 - 220	SW846 8270	bis-Chloroisopropyl ether	1.92 - 2.2	SW846 8270
.d)pyrene         0.192 - 0.22         SW846 8270         n-Nitrosodiethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosodimethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosodimethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomorpholine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2           Insultate         1.92 - 2.2         SW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2           Insultate         1.92 - 2.2         SW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2           Insultate         1.92 - 2.2         SW846 8270         n-Individe         1.92 - 2.2           Insultate         1.92 - 2.2         SW846 8270         n-Individe         1.92 - 2.2           Insultate         1.92 - 2.2         SW846 8270         n-Individe         1.92 - 2.2           Insultate         1.92 - 3.2         SW846 8270         1.92 - 2.2           Insultate         1.92 - 3.2 <t< td=""><td>Hexachloropropene</td><td>1.92 - 2.2</td><td>SW846 8270</td><td>m,p-Cresol</td><td>2.88 - 3.3</td><td>SW846 8270</td></t<>	Hexachloropropene	1.92 - 2.2	SW846 8270	m,p-Cresol	2.88 - 3.3	SW846 8270
1.92 - 2.2         SW846 8270         n-Nitrosodiacthylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosodimethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           Insulate         1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           Insulate         1.92 - 2.2         SW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2           Insulate         1.92 - 2.2         SW846 8270         o-Cresol         1.92 - 2.2           Insulate         1.92 - 2.2         SW846 8270         o-Toluidine         1.92 - 2.2           Insulate         1.92 - 3.2         SW846 8270         SW846 8270         O-Toluidine         1.92 - 2.2           Insulate         1.92 - 3.2         SW846 8270         SW846 8270         SW846 8270         SW846 8270         SW846 8270         SW846 8270	Indeno(1,2,3-c,d)pyrene	0.192 - 0.22	SW846 8270	n-Nitroso-di-n-butylamine	1.92 - 2.2	SW846 8270
1.92 - 2.2         SW846 8270         n-Nitrosodimethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomorpholine         1.92 - 2.2           srylate         1.92 - 2.2         SW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2           non         1.92 - 2.2         SW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2           non         1.92 - 2.2         SW846 8270         o-Cresol         1.92 - 2.2           non         0.288 - 0.33         SW846 8270         o-Toluidine         1.92 - 2.2           non         0.288 - 0.33         SW846 8270         para-Phenylenediamine         1.92 - 2.2	Isodrin	1.92 - 2.2	SW846 8270	n-Nitrosodiethylamine	1.92 - 2.2	SW846 8270
1.92 - 2.2         SW846 8270         n-Nitrosodipropylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomorpholine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosopiperidine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2           1.92 - 2.2         SW846 8270         o-Cresol         1.92 - 2.2           1.92 - 2.2         SW846 8270         o-Toluidine         1.92 - 2.2           1.92 - 2.2         SW846 8270         o-Toluidine         1.92 - 2.2           1.92 - 2.2         SW846 8270         para-Phenylenediamine         1.92 - 2.2	Isophorone	1.92 - 2.2	SW846 8270	n-Nitrosodimethylamine	1.92 - 2.2	SW846 8270
1.92 - 2.2         SW846 8270         n-Nitrosomethylethylamine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosomorpholine         1.92 - 2.2           1.92 - 2.2         SW846 8270         n-Nitrosopiperidine         1.92 - 2.2           resulfonate         1.92 - 2.2         SW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2           on         1.92 - 2.2         SW846 8270         o-Cresol         1.92 - 2.2           on         0.288 - 0.33         SW846 8270         o-Toluidine         1.92 - 2.2           sava-Phenylenediamine         1.92 - 2.2         1.92 - 2.2	Isosafrole		SW846 8270	n-Nitrosodipropylamine	1.92 - 2.2	SW846 8270
1.92 - 2.2         SW846 8270         n-Nitrosomorpholine         1.92 - 2.2           srylate         1.92 - 2.2         SW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2           nesulfonate         1.92 - 2.2         SW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2           on         1.92 - 2.2         SW846 8270         o-Cresol         1.92 - 2.2           on         0.288 - 0.33         SW846 8270         o-Toluidine         1.92 - 2.2           2.88 - 3.3         SW846 8270         para-Phenylenediamine         1.92 - 2.2	Kepone		SW846 8270	n-Nitrosomethylethylamine	1.92 - 2.2	SW846 8270
rylate         1.92 - 2.2         SW846 8270         n-Nitrosopiperidine         1.92 - 2.2           resulfonate         1.92 - 2.2         SW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2           on         1.92 - 2.2         SW846 8270         o-Cresol         1.92 - 2.2           on         0.288 - 0.33         SW846 8270         o-Toluidine         1.92 - 2.2           2.88 - 3.3         SW846 8270         para-Phenylenediamine         1.92 - 2.2	Methapyrilene		SW846 8270	n-Nitrosomorpholine	1.92 - 2.2	SW846 8270
rylate         1.92 - 2.2         SWW846 8270         n-Nitrosopyrrolidine         1.92 - 2.2         NW846 8270         0-Cresol         1.92 - 2.2         1.	Methoxychlor	1.92 - 2.2	SW846 8270	n-Nitrosopiperidine	1.92 - 2.2	SW846 8270
nesulfonate         1.92 - 2.2         SWW846 8270         o-Cresol         1.92 - 2.2         1.92 - 2.2           on         1.92 - 2.2         SWW846 8270         o-Toluidine         1.92 - 2.2         1.92 - 2.2           0.288 - 0.33         SWW846 8270         para-Phenylenediamine         1.92 - 2.2	Methyl methacrylate	1.92 - 2.2	SW846 8270	n-Nitrosopyrrolidine	- 2	SW846 8270
on         1.92 - 2.2         SWW846 8270         o-Toluidine         1.92 - 2.2           0.288 - 0.33         SWW846 8270         para-Phenylenediamine         1.92 - 2.2	Methyl methanesulfonate	1.92 - 2.2	SW846 8270	o-Cresol	- 2	SW846 8270
0.288 - 0.33         SW846 8270         para-Phenylenediamine         1.92 - 2.2           2.88 - 3.3         SW846 8270         1.92 - 2.2	Methyl parathion	1.92 - 2.2	SW846 8270	o-Toluidine	1	SW846 8270
2.88 - 3.3 SW846 8270 pata-riteriyieneulaniile 1.32 - 2.2	Naphthalene	0.288 - 0.33	SW846 8270	Dhondonodiomino	7 00 0	CIN/946 9270
	Nitro-benzene		SW846 8270		7.2 - 26.1	0170040

Refer to footnotes on page 29.

Table CWL B-4
Method Detection Limits for Chlorinated Herbicides and Polychlorinated Biphenyls
Chemical Waste Landfill Groundwater Monitoring

Analyte	(hg/L)	Analytical Method <sup>9</sup>
2,4,5-T	0.0943 – 0.108	SW846-8151A
2,4,5-TP	0.0943 – 0.108	SW846-8151A
2,4-D	0.0943 – 0.108	SW846-8151A
Aroclor 1016	0.0435 - 0.0588	SW846-8082
Aroclor 1221	0.0724 – 0.098	SW846-8082
Aroclor 1232	0.0435 - 0.0588	SW846-8082
Aroclor 1242	0.0522 – 0.0706	SW846-8082
Aroclor 1248	0.0435 - 0.0588	SW846-8082
Aroclor 1254	0.0435 - 0.0588	SW846-8082
Aroclor 1260	0.0435 - 0.0588	SW846-8082
Refer to footnotes on page 29		

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Table CWL B-5
Summary of Sulfide and Total Cyanide Results
Chemical Waste Landfill Groundwater Monitoring

Well ID	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
CWL-BW3	Sulfides	0.801	0.385	2.50	빙	7		071806-029	SW846 9034
03-Oct-05	Total Cyanide	ND	0.0025	900'0	0.2	n		071806-027	SW846 9012
CWL-BW4A	Sulfides	QN	0.385	2.50	빙	ס		071808-029	SW846 9034
12-Oct-05	Total Cyanide	ND	0.0025	900'0	0.2	n		071808-027	SW846 9012
CWL-MW2BL	Sulfides	2.40	0.385	2.50	NE	7		071811-029	SW846 9034
05-Oct-05	Total Cyanide	0.00427	0.0025	900'0	0.2	ſ		071811-027	SW846 9012
CWL-MW2BL (Duplicate)	Sulfides	1.60	0.385	2.50	NE	ſ		071812-029	SW846 9034
05-Oct-05	Total Cyanide	ND	0.0025	900'0	0.2	n		071812-027	SW846 9012
CWL-MW2BU 20-Oct-05	Total Cyanide	QN	0.0025	900'0	0.2	n		071814-027	SW846 9012
CWL-MW4	Sulfides	ND	0.385	2.50	NE	n		071818-029	SW846 9034
10-Oct-05	Total Cyanide	ND	0.0025	900'0	0.2	n		071818-027	SW846 9012
CWL-MW4 (Duplicate)	Sulfides	0.468	0.385	2.50	NE	ſ		071819-029	SW846 9034
10-Oct-05	Total Cyanide	ND	0.0025	900'0	0.2	n		071819-027	SW846 9012
CWL-MW5L	Sulfides	0.401	0.385	2.50	NE	ſ		071821-029	SW846 9034
04-Oct-05	Total Cyanide	ND	0.0025	0.005	0.2	n		071821-027	SW846 9012
CWL-MW5U	Sulfides	0.401	0.385	2.50	NE	ſ	В2, Ј	071825-029	SW846 9034
17-Oct-05	Total Cyanide	0.00321	0.0025	200'0	0.2	В, Ј	В, ВЗ, Ј	071825-027	SW846 9012
CWL-MW6L	Sulfides	ND	0.385	2.50	NE	n		071827-029	SW846 9034
13-Oct-05	Total Cyanide	ND	0.0025	900.0	0.2	n		071827-027	SW846 9012
CWL-MW6U	Sulfides	ND	0.385	2.50	NE	n		071830-029	SW846 9034
19-Oct-05	Total Cyanide	0.00254	0.0025	0.005	0.2	ſ		071830-027	SW846 9012
Refer to footnotes on page 29.									

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Table CWL B-6
Summary of Total Metal Results
Chemical Waste Landfill Groundwater Monitoring

	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
An	Antimony	QV	0.0005	0.002	900.0	Þ		071806-009	SW846 6020
Arg	Arsenic	QN	0.0015	0.005	0.010	D		071806-009	SW846 6020
Ba	Barium	0.00541	0.0005	0.002	2.0			071806-009	SW846 6020
Be	Beryllium	ND	0.0001	0.0005	0.004	n		071806-009	SW846 6020
O	Sadmium	ND	0.0001	0.001	0.005	n		071806-009	SW846 6020
<u> ර්</u>	Chromium	0.0019	0.001	0.003	0.10	7		071806-009	SW846 6020
<u> 8</u>	Cobalt	ND	0.0001	0.001	NE	n		071806-009	SW846 6020
<u> 8</u>	Copper	0.0003	0.0002	0.001	빙	7		071806-009	SW846 6020
CWL-BW3 Iron	u	0.0826	0.010	0.025	NE			071806-009	SW846 6020
03-Oct-05	Lead	ND	0.0005	0.002	NE	n		071806-009	SW846 6020
Me	Mercury	Q	0.00005	0.0002	0.002	⊃	B3, UJ	071806-009	SW846 7470
<u>  X</u>	Nickel	0.0141	0.0005	0.002	빙			071806-009	SW846 6020
Sel	Selenium	ND	0.0025	0.005	0.050	Π		071806-009	SW846 6020
<u>Sii</u> S	Silver	ND	0.0002	0.001	NE	n		071806-009	SW846 6020
Th	-hallium	ND	0.0004	0.001	0.002	n		071806-009	SW846 6020
Tin		ND	0.001	0.005	NE	n		071806-009	SW846 6020
Va	/anadium	ND	0.002	0.030	NE	n		071806-009	SW846 6020
Zir	Zinc	0.00406	0.002	0.010	NE	ſ		071806-009	SW846 6020
An	Antimony	ND	0.0005	0.002	0.006	n		076886-009	SW846 6020
Ari	Arsenic	ND	0.0015	0.005	0.010	B, U		076886-009	SW846 6020
Ba	Barium	0.0571	0.0005	0.002	2.0			076886-009	SW846 6020
Be	Beryllium	ND	0.0001	0.0005	0.004	n		076886-009	SW846 6020
Ca	Sadmium	ND	0.0001	0.001	0.005	n		076886-009	SW846 6020
<u>い</u>	Chromium	0.0368	0.001	0.003	0.10	В	J, P1	076886-009	SW846 6020
8	Cobalt	0.00185	0.0001	0.001	NE			076886-009	SW846 6020
0	Copper	0.00302	0.0002	0.001	NE			076886-009	SW846 6020
CWL-BW3 Iron	u	0.812	0.010	0.025	NE			076886-009	SW846 6020
07-Apr-06 Le	-ead	ND	0.0005	0.002	NE	n	P1, UJ	016886-009	SW846 6020
Me	Mercury	ND	0.00005	0.0002	0.002	n	B3, UJ	016886-009	SW846 7470
NK	Nickel	0.191	0.0005	0.002	NE			076886-009	SW846 6020
Se	Selenium	ND	0.0025	0.005	0.050	n		076886-009	SW846 6020
150	Silver	ND	0.0002	0.001	NE	D		016886-009	SW846 6020
<u>T</u>	hallium	0.000617	0.0004	0.001	0.002	7		016886-009	SW846 6020
Tin		ND	0.001	0.005	NE	n		076886-009	SW846 6020
Va	Vanadium	ND	0.002	0:030	NE	⊃	A2, UJ	076886-009	SW846 6020
Zinc	<u>ي</u>	0.010	0.002	0.010	빙	В, Ј	В, Ј	016886-009	SW846 6020

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## Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
	Antimony	ND	0.0005	0.002	0.006	n		071808-009	SW846 6020
	Arsenic	ND	0.0015	0.005	0.010	Π		071808-009	SW846 6020
	Barium	0.0546	0.0005	0.002	2.0			071808-009	SW846 6020
	Beryllium	ND	0.0001	0.0005	0.004	Π		071808-009	SW846 6020
	Cadmium	ND	0.0001	0.001	0.005	n		071808-009	SW846 6020
	Chromium	ND	0.001	0.003	0.10	n		071808-009	SW846 6020
	Cobalt	0.00034	0.0001	0.001	NE	ſ		071808-009	SW846 6020
	Copper	0.0012	0.0002	0.001	NE			071808-009	SW846 6020
WL-BW4A	Iron	0.632	0.010	0.025	NE	В		071808-009	SW846 6020
2-Oct-05	Lead	ND	0.0005	0.002	NE	n		071808-009	SW846 6020
	Mercury	ND	0.00005	0.0002	0.002	U		071808-009	SW846 7470
	Nickel	0.00453	0.0005	0.002	NE		ſ	071808-009	SW846 6020
	Selenium	ND	0.0025	0.005	0.050	U		071808-009	SW846 6020
	Silver	ND	0.0002	0.001	JN	N		071808-009	SW846 6020
	Thallium	ND	0.0004	0.001	0.002	n		071808-009	SW846 6020
	Tin	QN	0.001	0.005	빙	Ω		071808-009	SW846 6020
	Vanadium	ND	0.002	0.030	Ŋ	n		071808-009	SW846 6020
	Zinc	0.00943	0.002	0.010	Ŋ	ſ		071808-009	SW846 6020
	Antimony	ND	0.0005	0.002	900'0	n		076891-009	SW846 6020
	Arsenic	0.00356	0.0015	0.005	0.010	В, Ј	В, В2, Ј	076891-009	SW846 6020
	Barium	0.0538	0.0005	0.002	2.0			076891-009	SW846 6020
	Beryllium	ND	0.0001	0.0005	0.004	n		076891-009	SW846 6020
	Cadmium	0.000226	0.0001	0.001	0.005	J		076891-009	SW846 6020
	Chromium	0.00205	0.001	0.003	0.10	В, Ј	В, В2, Ј	076891-009	SW846 6020
	Cobalt	0.000323	0.0001	0.001	Ŋ	٦		076891-009	SW846 6020
	Copper	0.00299	0.0002	0.001	Ŋ	В		076891-009	SW846 6020
WL-BW4A	Iron	0.730	0.010	0.025	Ŋ			076891-009	SW846 6020
5-Apr-06	Lead	ND	0.0005	0.002	빙	D		076891-009	SW846 6020
	Mercury	ND	0.00005	0.0002	0.002	D	B3, UJ	076891-009	SW846 7470
	Nickel	0.00418	0.0005	0.002	빙			076891-009	SW846 6020
	Selenium	ND	0.0025	0.005	0.050	n		076891-009	SW846 6020
	Silver	ND	0.0002	0.001	NE	n		076891-009	SW846 6020
	Thallium	0.000491	0.0004	0.001	0.002	ſ		076891-009	SW846 6020
	Tin	ND	0.001	0.005	묑	B, U		076891-009	SW846 6020
	Vanadium	0.00752	0.002	0:030	빙	В, Ј	В, В2, Ј	076891-009	SW846 6020
	Zinc	0.0267	0.002	0.010	뮏			076891-009	SW846 6020

## Fiscal Year 2006

Well ID	Analyte	Resulta	MDL	PQL°	MCLd	Laboratory	Validation	Sample No.	Analytical
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	Qualifier	Qualifier		Method <sup>9</sup>
	Antimony	ND	0.0005	0.002	900.0	n		076892-009	SW846 6020
	Arsenic	0.00332	0.0015	0.005	0.010	В, Ј	В, В2, Ј	076892-009	SW846 6020
	Barium	0.0536	0.0005	0.002	2.0			076892-009	SW846 6020
	Beryllium	QN	0.0001	0.0005	0.004	n		076892-009	SW846 6020
	Cadmium	0.000218	0.0001	0.001	0.005	ſ		076892-009	SW846 6020
	Chromium	0.00201	0.001	0.003	0.10	В, Ј	B, B2, J	076892-009	SW846 6020
	Cobalt	0.000331	0.0001	0.001	NE	ſ		076892-009	SW846 6020
	Copper	0.003	0.0002	0.001	NE	В		076892-009	SW846 6020
WL-BW4A (Duplicate)	Iron	0.740	0.010	0.025	빙			076892-009	SW846 6020
5-Apr-06	Lead	QV	0.0005	0.002	빙	D		076892-009	SW846 6020
	Mercury	Q.	0.00005	0.0002	0.002	⊃	B3, UJ	076892-009	SW846 7470
	Nickel	0.00418	0.0005	0.002	빙			076892-009	SW846 6020
	Selenium	QN	0.0025	0.005	0.050	⊃		076892-009	SW846 6020
	Silver	QV	0.0002	0.001	빙	D		076892-009	SW846 6020
	Thallium	QN	0.0004	0.001	0.002	n		076892-009	SW846 6020
	Tin	QN	0.001	0.005	NE	B, U		076892-009	SW846 6020
	Vanadium	0.0106	0.002	0.030	NE	В, Ј	B, B2, J	076892-009	SW846 6020
	Zinc	0.0409	0.002	0.010	NE			076892-009	SW846 6020
	Antimony	ND	0.0005	0.002	900.0	n		071811-009	SW846 6020
	Arsenic	0.0016	0.0015	0.005	0.010	٦		071811-009	SW846 6020
	Barium	0.0057	0.0005	0.002	2.0			071811-009	SW846 6020
	Beryllium	ND	0.0001	0.0005	0.004	n		071811-009	SW846 6020
	Cadmium	ND	0.0001	0.001	0.005	n		071811-009	SW846 6020
	Chromium	ND	0.001	0.003	0.10	n		071811-009	SW846 6020
	Cobalt	QN	0.0001	0.001	NE	n		071811-009	SW846 6020
	Copper	0.000273	0.0002	0.001	NE	ſ		071811-009	SW846 6020
WL-MW2BL	Iron	0.0824	0.010	0.025	NE			071811-009	SW846 6020
5-Oct-05	Lead	ND	0.0005	0.002	NE	n		071811-009	SW846 6020
	Mercury	ND	0.00005	0.0002	0.002	U	B3, UJ	071811-009	SW846 7470
	Nickel	ON	0.0005	0.002	NE	n		071811-009	SW846 6020
	Selenium	ND	0.0025	0.005	0.050	n		071811-009	SW846 6020
	Silver	ND	0.0002	0.001	NE	n		071811-009	SW846 6020
	Thallium	ND	0.0004	0.001	0.002	D		071811-009	SW846 6020
	Tin	ND	0.001	0.005	NE	n		071811-009	SW846 6020
	Vanadium	ND	0.002	0.030	NE	n		071811-009	SW846 6020
	Zinc	0.00389	0.002	0.010	NE	ſ		071811-009	SW846 6020
efer to footnotes on page 29.									

Appendices

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#### Fiscal Year 2006

Well ID	Analyte	Resulta (ma/L)	MDL <sup>b</sup>	PQL° (mg/L)	MCL <sup>d</sup>	Laboratory Validation Qualifier Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Antimony		(1 16 m)	(1.6)	9000	=		074842 000	C/V/846 6020
	Arsenic	2 2	0.0003	0.002	0.000	> =		071812-009	SW846 6020
	Barium	0.0057	0.0005	0.002	2.0	)		071812-009	SW846 6020
	Beryllium	QN	0.0001	0.0005	0.004	ס		071812-009	SW846 6020
	Cadmium	QN	0.0001	0.001	0.005	Э		071812-009	SW846 6020
	Chromium	QN	0.001	0.003	0.10	⊃		071812-009	SW846 6020
	Cobalt	QN	0.0001	0.001	Ŋ	D		071812-009	SW846 6020
	Copper	0.000389	0.0002	0.001	Ŋ	7		071812-009	SW846 6020
CWL-MW2BL (Duplicate)		0.0854	0.010	0.025	Ŋ			071812-009	SW846 6020
05-Oct-05	Lead	QN	0.0005	0.002	Ŋ	Э		071812-009	SW846 6020
	Mercury	QN	0.00005	0.0002	0.002	Э	B3, UJ	071812-009	SW846 7470
	Nickel	QN	0.0005	0.002	Ŋ	D		071812-009	SW846 6020
	Selenium	ND	0.0025	0.005	0.050	n		071812-009	SW846 6020
	Silver	ND	0.0002	0.001	NE	n		071812-009	SW846 6020
	Thallium	QN	0.0004	0.001	0.002	n		071812-009	SW846 6020
	Tin	ND	0.001	0.005	NE	n		071812-009	SW846 6020
	Vanadium	0.0024	0.002	0.030	NE	ſ		071812-009	SW846 6020
	Zinc	ND	0.002	0.010	NE	n		071812-009	SW846 6020
	Antimony	ND	0.0005	0.002	900'0	n		076894-009	SW846 6020
	Arsenic	ND	0.0015	0.005	0.010	n		076894-009	SW846 6020
	Barium	0.0574	0.0005	0.002	2.0			076894-009	SW846 6020
	Beryllium	ND	0.0001	0.0005	0.004	n		076894-009	SW846 6020
	Cadmium	ND	0.0001	0.001	0.005	n		076894-009	SW846 6020
	Chromium	0.00151	0.001	0.003	0.10	В, Ј	В, Ј	076894-009	SW846 6020
	Cobalt	0.000303	0.0001	0.001	NE	ſ		076894-009	SW846 6020
	Copper	0.00077	0.0002	0.001	NE	ſ		076894-009	SW846 6020
CWL-MW2BL	Iron	0.596	0.010	0.025	NE			076894-009	SW846 6020
26-Apr-06	Lead	ND	0.0005	0.002	NE	n		076894-009	SW846 6020
	Mercury	ND	0.00005	0.0002	0.002	n	B3, UJ	076894-009	SW846 7470
	Nickel	0.0022	0.0005	0.002	NE			076894-009	SW846 6020
	Selenium	ND	0.0025	0.005	0.050	Ο		076894-009	SW846 6020
	Silver	ND	0.0002	0.001	빙	D		076894-009	SW846 6020
	Thallium	ND	0.0004	0.001	0.002	D		076894-009	SW846 6020
	Tin	ND	0.001	0.005	Ŋ	D		076894-009	SW846 6020
	Vanadium	0.00298	0.002	0:030	Ŋ	7		076894-009	SW846 6020
	Zinc	0.0025	0.002	0.010	NE	В, Ј	В, Л	076894-009	SW846 6020
Refer to footnotes on page 29.									

## Fiscal Year 2006

nalyte		<u>_</u>		ر اد	Laboratory	Validation	:	Analytical
Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Mercury Nickel Selenium Silver Thallium Tin Vanadium Zinc Antimony Arsenic Barium Beryllium Copper Copper Copper Iron Copper Iron Copper Iron Copper Copper Iron Copper Iron Copper Iron Chromium Cadmium Chromium Cadmium Chromium Chromium Chromium Cadmium Chromium Chromiu	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Qualifier	Qualifier	Sample No.	Method <sup>9</sup>
Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Mercury Nickel Selenium Silver Thallium Tin Nanadium Zinc Artimony Arsenic Barium Beryllium Copper Cobalt Copper Iron Chromium Cadmium Chromium Cadmium Chromium Cadmium Cadmium Cadmium Chromium Cadmium Chromium Cadmium Chromium Cadmium Chromium Chromium Chromium Cadmium Chromium	0.000594	0.0005	0.002	900.0	٦		071814-009	SW846 6020
Barium Beryllium Cadmium Chromium Cobalt Cobalt Copper Iron Lead Mercury Nickel Selenium Silver Thallium Tin Vanadium Zinc Antimony Arsenic Barium Beryllium Cadmium Copper Iron Lead Mercury Nickel Selenium Silver Iron Tron Cadmium Cobalt Cobalt Cobalt Cobalt Selenium Silver Thallium Tin	0.00439	0.0015	0.005	0.010	7		071814-009	SW846 6020
Beryllium Cadmium Chromium Chromium Cobalt Copper Iron Lead Mercury Nickel Selenium Silver Thallium Tin Vanadium Zinc Antimony Arsenic Barium Beryllium Cadmium Copper Iron Chromium Cobalt Cob	0.0661	0.0005	0.002	2.0			071814-009	SW846 6020
Cadmium Chromium Chromium Cobalt Copper Iron Lead Mercury Nickel Selenium Silver Thallium Tin Vanadium Zinc Antimony Arsenic Barium Beryllium Cadmium Cadmium Copper Iron Lead Mercury Nickel Selenium Silver Thallium Thallium Cadmium Tin	0.000247	0.0001	0.0005	0.004	ſ		071814-009	SW846 6020
Chromium Cobalt Cobalt Copper Iron Lead Mercury Nickel Selenium Silver Tin Vanadium Zinc Antimony Arsenic Barium Beryllium Cadmium Cobalt Coba	ND	0.0001	0.001	0.005	n		071814-009	SW846 6020
Cobalt Copper Iron Lead Mercury Nickel Selenium Silver Thallium Tin Vanadium Zinc Antimony Arsenic Barium Beryllium Cadmium Cadmium Cobalt Cob	0.0218	0.001	0.003	0.10			071814-009	SW846 6020
EBU Iron Lead Mercury Nickel Selenium Silver Thallium Tin Vanadium Zinc Antimony Arsenic Barium Beryllium Cadmium Chromium Cobatt Selenium Silver Thallium Tin Tin	0.000507	0.0001	0.001	NE	ſ		071814-009	SW846 6020
lron Lead Mercury Mickel Selenium Silver Thallium Tin Vanadium Zinc Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Cobalt Cobalt Lead Mercury Nickel Selenium Silver Tin	0.00717	0.0002	0.001	NE			071814-009	SW846 6020
Lead Mercury Nickel Selenium Silver Thallium Tin Vanadium Zinc Antimony Arsenic Barium Zedmium Cadmium Chromium Copper Iron Lead Mercury Nickel Selenium Silver Tin	2.46	0.010	0.025	Ŋ			071814-009	SW846 6020
Mercury Nickel Selenium Silver Thallium Tin Vanadium Zinc Antimony Arsenic Barium Earlium Cadmium Chromium Copper Iron Iron Lead Mercury Nickel Selenium Silver Tin	0.00476	0.0005	0.002	NE			071814-009	SW846 6020
Nickel Selenium Silver Thallium Tin Vanadium Zinc Antimony Arsenic Barium Beryllium Cadmium Chromium Choper Iron Lead Mercury Nickel Selenium Silver Tin	ND	0.00005	0.0002	0.002	Ω	B3, UJ	071814-009	SW846 7470
Selenium Silver Thallium Tin Vanadium Zinc Antimony Arsenic Barium Beryllium Cadmium Chromium Choper Iron Iron Iread Mercury Nickel Selenium Silver Tin	0.0357	0.0005	0.002	NE			071814-009	SW846 6020
Silver Thallium Tin Vanadium Zinc Antimony Arsenic Barium Beryllium Cadmium Chromium Copper Iron Lead Mercury Nickel Selenium Silver Thallium	ND	0.0025	0.005	0.050	n		071814-009	SW846 6020
Thallium Tin Vanadium Zinc Antimony Arsenic Barium Beryllium Cadmium Chromium Cobatt Copper Iron Iread Mercury Nickel Selenium Silver Thallium	0.000416	0.0002	0.001	NE	ſ		071814-009	SW846 6020
Tin Vanadium Zinc Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Mercury Nickel Selenium Silver Thallium	ND	0.0004	0.001	0.002	n		071814-009	SW846 6020
Vanadium Zinc Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Mercury Nickel Selenium Silver Thallium	0.00244	0.001	0.005	NE	ſ		071814-009	SW846 6020
Zinc Antimony Arsenic Barium Beryllium Cadmium Chromium Chromium Chobalt Copper Iron Lead Mercury Nickel Selenium Silver Thallium	0.00481	0.002	0.030	NE	Ŋ		071814-009	SW846 6020
Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Mercury Nickel Selenium Silver Thallium	0.0476	0.002	0.010	NE	В		071814-009	SW846 6020
Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Iron Iron Lead Mercury Nickel Selenium Silver Thallium	0.000588	0.0005	0.002	0.006	Ŋ	В3, Ј	076896-009	SW846 6020
Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Mercury Nickel Selenium Silver Thallium	0.0041	0.0015	0.005	0.010	ſ		016896-009	SW846 6020
Beryllium Cadmium Chromium Cobalt Copper Iron Lead Mercury Nickel Selenium Silver Thallium	0.0932	0.0005	0.002	2.0			016896-009	SW846 6020
Cadmium Chromium Cobalt Copper Iron Lead Mercury Nickel Selenium Silver Thallium	0.000312	0.0001	0.0005	0.004	ſ		016896-009	SW846 6020
Chromium Cobalt Copper Iron Lead Mercury Nickel Selenium Silver Thallium	ND	0.0001	0.001	0.005	n		076896-009	SW846 6020
Cobalt Copper Iron Lead Mercury Nickel Selenium Silver Thallium	0.0336	0.001	0.003	0.10	В		076896-009	SW846 6020
Copper Iron Lead Mercury Nickel Selenium Silver Thallium	0.00082	0.0001	0.001	NE	Ŋ		076896-009	SW846 6020
Iron Lead Mercury Nickel Selenium Silver Thallium	0.00864	0.0002	0.001	NE			076896-009	SW846 6020
Lead Mercury Nickel Selenium Silver Thallium	3.87	0.010	0.025	NE			076896-009	SW846 6020
m mr	0.00743	0.0005	0.002	NE			016896-009	SW846 6020
un,	ND	0.00005	0.0002	0.002	n	B3, UJ	016896-009	SW846 7470
un wr	0.0443	0.0005	0.002	NE			076896-009	SW846 6020
wr	ND	0.0025	0.005	0.050	D		016896-009	SW846 6020
	0.00082	0.0002	0.001	NE	٦		016896-009	SW846 6020
	0.000587	0.0004	0.001	0.002	J		016896-009	SW846 6020
	0.00404	0.001	0.005	Ŋ	٦		016896-009	SW846 6020
Vanadium 0.0037	0.00378	0.002	0.030	IJ	7		026896-009	SW846 6020
Zinc 0.065	0.065	0.002	0.010	NE	В		00-968920	SW846 6020

Appendices

## Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>®</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Antimony	QN	0.0005	0.002	900.0	D		076898-009	SW846 6020
	Arsenic	Q	0.0015	0.005	0.010	B, U		016898-009	SW846 6020
	Barium	0.0626	0.0005	0.002	2.0			016898-009	SW846 6020
	Beryllium	QN	0.0001	0.0005	0.004	n		076898-009	SW846 6020
	Cadmium	0.000198	0.0001	0.001	0.005	7		016898-009	SW846 6020
	Chromium	0.00312	0.001	0.003	0.10	В	B, J, P1	076898-009	SW846 6020
	Cobalt	0.00477	0.0001	0.001	빙			076898-009	SW846 6020
	Copper	0.00229	0.0002	0.001	빙			076898-009	SW846 6020
WL-MW4	Iron	0.935	0.010	0.025	N.			00-868920	SW846 6020
1-Apr-06	Lead	Q	0.0005	0.002	빙	⊃	P1, UJ	016898-009	SW846 6020
	Mercury	QV	0.00005	0.0002	0.002	⊃	B3, UJ	016898-009	SW846 7470
	Nickel	0.460	0.0005	0.002	빙			076898-009	SW846 6020
	Selenium	Q	0.0025	0.005	0.050	)		076898-009	SW846 6020
	Silver	Q	0.0002	0.001	뮏	⊃		076898-009	SW846 6020
	Thallium	Q	0.0004	0.001	0.002	⊃		076898-009	SW846 6020
	Tin	QN	0.001	0.005	NE	n		00-868920	SW846 6020
	Vanadium	ND	0.002	0:030	Ŋ	n	A2, UJ	076898-009	SW846 6020
	Zinc	0.00528	0.002	0.010	NE	В, Ј	В, Ј	016898-009	SW846 6020
	Antimony	ND	0.0005	0.002	900.0	n		071821-009	SW846 6020
	Arsenic	ND	0.0015	0.005	0.010	n		071821-009	SW846 6020
	Barium	0.00467	0.0005	0.002	2.0			071821-009	SW846 6020
	Beryllium	QN	0.0001	0.0005	0.004	n		071821-009	SW846 6020
	Cadmium	ND	0.0001	0.001	0.005	n		071821-009	SW846 6020
	Chromium	ND	0.001	0.003	0.10	n		071821-009	SW846 6020
	Cobalt	ND	0.0001	0.001	NE	n		071821-009	SW846 6020
	Copper	ND	0.0002	0.001	NE	n		071821-009	SW846 6020
WL-MW5L	Iron	0.0658	0.010	0.025	NE			071821-009	SW846 6020
4-Oct-05	Lead	ND	0.0005	0.002	NE	n		071821-009	SW846 6020
	Mercury	ND	0.00005	0.0002	0.002	n	B3, UJ	071821-009	SW846 7470
	Nickel	ND	0.0005	0.002	NE	n		071821-009	SW846 6020
	Selenium	ND	0.0025	0.005	0.050	n		071821-009	SW846 6020
	Silver	ND	0.0002	0.001	NE	n		071821-009	SW846 6020
	Thallium	ND	0.0004	0.001	0.002	n		071821-009	SW846 6020
	Tin	ND	0.001	0.005	Ŋ	n		071821-009	SW846 6020
	Vanadium	ND	0.002	0.030	NE	n		071821-009	SW846 6020
	Zinc	QN	0.002	0.010	뮏	_		071821-009	SW846 6020

## Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Antimony	ND	0.0005	0.002	0.006	n		076898-009	SW846 6020
	Arsenic	ND	0.0015	0.005	0.010	B, U		076898-009	SW846 6020
	Barium	0.0626	0.0005	0.002	2.0			076898-009	SW846 6020
	Beryllium	QN	0.0001	0.0005	0.004	n		026898-009	SW846 6020
	Cadmium	0.000198	0.0001	0.001	0.005	7		076898-009	SW846 6020
	Chromium	0.00312	0.001	0.003	0.10	В	B, J, P1	076898-009	SW846 6020
	Cobalt	0.00477	0.0001	0.001	NE			076898-009	SW846 6020
	Copper	0.00229	0.0002	0.001	NE			600-868920	SW846 6020
CWL-MW4	Iron	0.935	0.010	0.025	NE			016898-009	SW846 6020
11-Apr-06	Lead	ΠN	0.0005	0.002	NE	n	P1, UJ	016898-009	SW846 6020
	Mercury	QN	0.00005	0.0002	0.002	n	B3, UJ	00-868920	SW846 7470
	Nickel	0.460	0.0005	0.002	NE			076898-009	SW846 6020
	Selenium	QN	0.0025	0.005	0.050	n		076898-009	SW846 6020
	Silver	ΠN	0.0002	0.001	NE	n		600-868920	SW846 6020
	Thallium	QN	0.0004	0.001	0.002	n		026898-009	SW846 6020
	Tin	ND	0.001	0.005	NE	n		016898-009	SW846 6020
	Vanadium	ND	0.002	0.030	NE	n	A2, UJ	076898-009	SW846 6020
	Zinc	0.00528	0.002	0.010	NE	В, Л	В, Ј	076898-009	SW846 6020
	Antimony	ND	0.0005	0.002	900.0	n		071821-009	SW846 6020
	Arsenic	ND	0.0015	0.005	0.010	D		071821-009	SW846 6020
	Barium	0.00467	0.0005	0.002	2.0			071821-009	SW846 6020
	Beryllium	ND	0.0001	0.0005	0.004	Π		071821-009	SW846 6020
	Cadmium	QN	0.0001	0.001	0.005	n		071821-009	SW846 6020
	Chromium	ND	0.001	0.003	0.10	n		071821-009	SW846 6020
	Cobalt	ND	0.0001	0.001	NE	n		071821-009	SW846 6020
	Copper	QN	0.0002	0.001	빙	D		071821-009	SW846 6020
CWL-MW5L	Iron	0.0658	0.010	0.025	NE			071821-009	SW846 6020
04-Oct-05	Lead	Q	0.0005	0.002	빙	D		071821-009	SW846 6020
	Mercury	ND	0.00005	0.0002	0.002	n	B3, UJ	071821-009	SW846 7470
	Nickel	Q	0.0005	0.002	빙	D		071821-009	SW846 6020
	Selenium	QN	0.0025	0.005	0.050	D		071821-009	SW846 6020
	Silver	ND	0.0002	0.001	N	D		071821-009	SW846 6020
	Thallium	Q	0.0004	0.001	0.002	D		071821-009	SW846 6020
	Tin	Q	0.001	0.005	Ŋ	D		071821-009	SW846 6020
	Vanadium	QN	0.002	0.030	빙	⊃		071821-009	SW846 6020
Defer to footstated as no and	Zinc	Q	0.002	0.010	빙	)		071821-009	SW846 6020

APPENDICES B-19

## Chemical Waste Landfill Groundwater Monitoring Table CWL B-6 Summary of Total Metal Results

## Fiscal Year 2006

Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
Antimony	QN	0.0005	0.002	900.0	Э		600-006920	SW846 6020
	QN	0.0015	0.005	0.010	Э		600-006920	SW846 6020
	0.0573	0.0005	0.002	2.0			600-006920	SW846 6020
Beryllium	ND	0.0001	0.0005	0.004	n		00-006920	SW846 6020
Sadmium	Q	0.0001	0.001	0.005	D		00-006920	SW846 6020
Chromium	0.00578	0.001	0.003	0.10			00-006920	SW846 6020
Cobalt	0.000491	0.0001	0.001	빙	7		00-006920	SW846 6020
Copper	0.00231	0.0002	0.001	빙			00-006920	SW846 6020
	0.524	0.010	0.025	빙			016900-009	SW846 6020
	0.00055	0.0005	0.002	Ŋ	٦		00-006920	SW846 6020
Mercury	ND	0.00005	0.0002	0.002	U	B3, UJ	026900-009	SW846 7470
	0.00559	0.0005	0.002	NE			00-006920	SW846 6020
Selenium	QN	0.0025	0.005	0.050	Э		600-006920	SW846 6020
	QN	0.0002	0.001	Ŋ	Ω		600-006920	SW846 6020
hallium-	0.000465	0.0004	0.001	0.002	7		600-006920	SW846 6020
	QN	0.001	0.005	Ŋ	Э		600-006920	SW846 6020
/anadium	0.00371	0.002	0:030	Ŋ	ſ		600-006920	SW846 6020
	0.0151	0.002	0.010	빙	В		600-006920	SW846 6020
Antimony	QN	0.0005	0.002	900.0	Ω		071825-009	SW846 6020
Arsenic	0.00203	0.0015	0.005	0.010	7		071825-009	SW846 6020
Barium	0.0733	0.0005	0.002	2.0			071825-009	SW846 6020
Beryllium	ND	0.0001	0.0005	0.004	n		071825-009	SW846 6020
Cadmium	ND	0.0001	0.001	0.005	n		071825-009	SW846 6020
Shromium	ND	0.001	0.003	0.10	n		071825-009	SW846 6020
Cobalt	0.000134	0.0001	0.001	NE	J		071825-009	SW846 6020
Copper	0.00124	0.0002	0.001	NE		B2, J	071825-009	SW846 6020
	0.387	0.010	0.025	NE			071825-009	SW846 6020
	ND	0.0005	0.002	NE	U		071825-009	SW846 6020
Mercury	ND	0.00005	0.0002	0.002	U	B3, UJ	071825-009	SW846 7470
Nickel	0.00216	0.0005	0.002	Ŋ			071825-009	SW846 6020
Selenium	ND	0.0025	0.005	0.050	Ω		071825-009	SW846 6020
Silver	ND	0.0002	0.001	NE	n		071825-009	SW846 6020
hallium	0.000453	0.0004	0.001	0.002	ſ		071825-009	SW846 6020
	QN	0.001	0.005	NE	Π		071825-009	SW846 6020
Vanadium	QN	0.002	0:030	NE	Π		071825-009	SW846 6020
	0.0452	0.002	0.010	뮏	В		071825-009	SW846 6020

## Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Antimony	ND	0.0005	0.002	900'0	n		076903-009	SW846 6020
	Arsenic	QN	0.0015	0.005	0.010	n		076903-009	SW846 6020
	Barium	0.0683	0.0005	0.002	2.0			076903-009	SW846 6020
	Beryllium	ND	0.0001	0.0005	0.004	n		076903-009	SW846 6020
	Cadmium	ND	0.0001	0.001	0.005	n		076903-009	SW846 6020
	Chromium	0.0015	0.001	0.003	0.10	ſ		076903-009	SW846 6020
	Cobalt	0.000174	0.0001	0.001	NE	ſ		076903-009	SW846 6020
	Copper	0.00202	0.0002	0.001	NE			076903-009	SW846 6020
CWL-MW5U	Iron	0.292	0.010	0.025	NE			076903-009	SW846 6020
14-Apr-06	Lead	QN	0.0005	0.002	NE	Ω		076903-009	SW846 6020
	Mercury	QN	0.00005	0.0002	0.002	⊃		076903-009	SW846 7470
	Nickel	0.00239	0.0005	0.002	NE			076903-009	SW846 6020
	Selenium	ND	0.0025	0.005	0.050	n		076903-009	SW846 6020
	Silver	ND	0.0002	0.001	NE	n		076903-009	SW846 6020
	Thallium	0.000857	0.0004	0.001	0.002	ſ	ВЗ, Ј	076903-009	SW846 6020
	Tin	ND	0.001	0.005	NE	n		076903-009	SW846 6020
	Vanadium	QN	0.002	0.030	JN	Π		016903-009	SW846 6020
	Zinc	0.0423	0.002	0.010	NE	В		076903-009	SW846 6020
	Antimony	ND	0.0005	0.002	900'0	n		071827-009	SW846 6020
	Arsenic	ND	0.0015	0.005	0.010	n		071827-009	SW846 6020
	Barium	0.0564	0.0005	0.002	2.0			071827-009	SW846 6020
	Beryllium	QN	0.0001	0.0005	0.004	n		071827-009	SW846 6020
	Cadmium	ND	0.0001	0.001	0.005	n		071827-009	SW846 6020
	Chromium	ND	0.001	0.003	0.10	n		071827-009	SW846 6020
	Cobalt	0.000326	0.0001	0.001	NE	ſ		071827-009	SW846 6020
	Copper	0.000912	0.0002	0.001	NE	J		071827-009	SW846 6020
CWL-MW6L	Iron	0.554	0.010	0.025	NE	В		071827-009	SW846 6020
13-Oct-05	Lead	ND	0.0005	0.002	NE	n		071827-009	SW846 6020
	Mercury	ND	0.00005	0.0002	0.002	n		071827-009	SW846 7470
	Nickel	0.00332	0.0005	0.002	NE		ſ	071827-009	SW846 6020
	Selenium	ND	0.0025	0.005	0.050	n		071827-009	SW846 6020
	Silver	ND	0.0002	0.001	NE	U		071827-009	SW846 6020
	Thallium	ND	0.0004	0.001	0.002	U		071827-009	SW846 6020
	Tin	ND	0.001	0.005	NE	n		071827-009	SW846 6020
	Vanadium	QN	0.002	0.030	JN	D		071827-009	SW846 6020
	Zinc	ND	0.002	0.010	빙	n		071827-009	SW846 6020
	ZIIIC	2	0.002	0.00	1	0			000-120110

Refer to footnotes on page 29.

## Chemical Waste Landfill Groundwater Monitoring Table CWL B-6 Summary of Total Metal Results

### Fiscal Year 2006

	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
	Antimony	ND	0.0005	0.002	0.006	n		076905-009	SW846 6020
	Arsenic	ND	0.0015	0.005	0.010	n		076905-009	SW846 6020
	Barium	090.0	0.0005	0.002	2.0	В		076905-009	SW846 6020
	Beryllium	QN	0.0001	0.0005	0.004	n		016905-009	SW846 6020
	Cadmium	QN	0.0001	0.001	0.005	n		016905-009	SW846 6020
	Chromium	ND	0.001	0.003	0.10	n		076905-009	SW846 6020
	Cobalt	0.000262	0.0001	0.001	NE	ſ		016905-009	SW846 6020
	Copper	0.000833	0.0002	0.001	NE	٦		016905-009	SW846 6020
CWL-MW6L	Iron	0.492	0.010	0.025	NE	В		016905-009	SW846 6020
20-Apr-06	Lead	ND	0.0005	0.002	NE	B, U		016905-009	SW846 6020
	Mercury	ND	0.00005	0.0002	0.002	n		016905-009	SW846 7470
	Nickel	0.00175	0.0005	0.002	NE	٦		016905-009	SW846 6020
	Selenium	QN	0.0025	0.005	0.050	ס		076905-009	SW846 6020
	Silver	ND	0.0002	0.001	NE	n		076905-009	SW846 6020
	Thallium	QN	0.0004	0.001	0.002	D		016905-009	SW846 6020
	Tin	QN	0.001	0.005	NE	n		016905-009	SW846 6020
	Vanadium	ND	0.002	0.030	NE	n		076905-009	SW846 6020
	Zinc	0.00677	0.002	0.010	NE	В, Ј	В, Ј	076905-009	SW846 6020
	Antimony	Q	0.0005	0.002	900.0	ס		600-906920	SW846 6020
	Arsenic	ND	0.0015	0.005	0.010	n		600-906920	SW846 6020
	Barium	0.0605	0.0005	0.002	2.0	В		016906-009	SW846 6020
	Beryllium	ND	0.0001	0.0005	0.004	D		600-906920	SW846 6020
	Cadmium	ND	0.0001	0.001	0.005	D		600-906920	SW846 6020
	Chromium	ND	0.001	0.003	0.10	n		600-906920	SW846 6020
	Cobalt	0.000238	0.0001	0.001	NE	ſ		016906-009	SW846 6020
	Copper	0.00072	0.0002	0.001	NE	٦		600-906920	SW846 6020
CWL-MW6L (Duplicate)	Iron	0.474	0.010	0.025	N	В		600-906920	SW846 6020
00-100-00	Lead	ND	0.0005	0.002	NE	B, U		600-906920	SW846 6020
	Mercury	ND	0.00005	0.0002	0.002	D		600-906920	SW846 7470
	Nickel	0.00165	0.0005	0.002	NE	ſ		016906-009	SW846 6020
	Selenium	ND	0.0025	0.005	0.050	D		600-906920	SW846 6020
	Silver	ND	0.0002	0.001	NE	n		600-906920	SW846 6020
	Thallium	QN	0.0004	0.001	0.002	D		600-906920	SW846 6020
	Tin	ND	0.001	0.005	IJN.	n		016906-009	SW846 6020
	Vanadium	QN	0.002	0.030	NE NE	ח		016906-009	SW846 6020
	Zinc	0.00269	0.002	0.010	Ŋ	В, Ј	В, Л	016906-009	SW846 6020

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richy         ND         0,0005         0,0006         U         O/1890-009           rich         ND         0,00015         0,0005         0,010         U         0/1890-009           rich         ND         0,00015         0,0005         0,0004         U         0/1890-009           rich         ND         0,00011         0,0005         0,0004         U         0/1890-009           mill         ND         0,00015         0,0001         0,0005         0,0004         U         0/1890-009           alt         0,00015         0,0001         0,0001         NE         J         0/1890-009           alt         0,00015         0,0001         0,0001         NE         J         0/1890-009           alt         0,00015         0,0001         0,0001         NE         J         0/1890-009           alt         ND         0,0001         0,0002         0,0002         NE         D         0/1890-009           alt         ND         0,0002         0,0002         NE         D         0/1890-009         0/1890-009           alt         ND         0,0002         0,0002         NE         D         0/1890-009         0/1890-009     <	Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
Argenic         ND         0.0015         0.005         0.0010         U         07/1830-009           Beryllum         0.0682         0.00071         0.0005         0.004         U         07/1830-009           Beryllum         ND         0.00011         0.0001         0.0001         0.0005         U         0.005           Cadmum         ND         0.0001         0.0001         0.0001         0.0005         U         0.005           Cobalt         0.00015         0.0001         0.0001         0.0001         0.0005         U         0.71830-009           Cobalt         0.00015         0.0001         0.0001         0.0001         0.0005         U         0.71830-009           Ion         0.0017         0.0005         0.0002         0.0002         U         0.71830-009           Ion         0.0017         0.0005         0.0002         U         0.71830-009           Nickel         0.0016         0.0005         0.0002         U         0.71830-009           Nickel         0.0010         0.0005         0.0002         0.002         U         0.71830-009           Nickel         ND         0.0005         0.0002         0.000         U		Antimony	ND	0.0005	0.002	0.006	ס		071830-009	SW846 6020
Berlum         D 0682         0 0005         0 004         U         OF 17830-009           Berlum         ND         0 00011         0 0004         0 004         U         0 071830-009           Cadrium         ND         0 00011         0 0001         0 0001         0 0001         0 0001         0 0001           Cobper         0 00011         0 0001         0 0001         0 0001         0 0001         0 0001         0 0001           Cobper         0 00011         0 0000         0 0001         0 0001         0 0000         0 0000         0 0000         0 0000           Ican         ND         0 0001         0 00000         0 00000         0 0000         0 0000		Arsenic	QN	0.0015	0.005	0.010	D		071830-009	SW846 6020
Beryllium         ND         0,0001         0,0005         0,004         U         0,71830-009           Gedrillum         ND         0,00011         0,0001         0,0005         0,10         J         0,71830-009           Chromium         0,000151         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0002         0,0001         0,0002		Barium	0.0682	0.0005	0.002	2.0			071830-009	SW846 6020
Cadmium         ND         0,0001         0,0002 <td></td> <td>Beryllium</td> <td>ND</td> <td>0.0001</td> <td>0.0005</td> <td>0.004</td> <td>n</td> <td></td> <td>071830-009</td> <td>SW846 6020</td>		Beryllium	ND	0.0001	0.0005	0.004	n		071830-009	SW846 6020
Chromium         0,00115         0,0011         0,0001         0,0001         NE         J         071330-009           Coppart         0,00011         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0001         0,0002		Cadmium	ND	0.0001	0.001	0.005	n		071830-009	SW846 6020
Cobatt         Coborts         0.00011         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0002         0.000		Chromium	0.00115	0.001	0.003	0.10	ſ		071830-009	SW846 6020
Capper         0 00011         0 0002         0 001         NE         0 771830-009           Iron         0 4144         0 0005         0 0025         NE         U         0 771830-009           Lead         ND         0 00005         0 0002         NB         U         0 771830-009           Mercury         ND         0 00005         0 0002         NB         U         0 771830-009           Selentum         ND         0 0002         0 0001         0 0002         0 0001         U         0 771830-009           Silver         ND         0 0002         0 0001         0 0002         U         0 771830-009           Silver         ND         0 0002         0 0001         NB         U         0 771830-009           Thallum         ND         0 0002         0 0001         NB         U         0 771830-009           Antmony         ND         0 0002         0 0001         0 0005         0 0006         0 000         0 0006           Antmony         ND         0 00015         0 0005         0 0006         0 000         0 000         0 000           Antmony         ND         0 00015         0 0005         0 0005         0 000         0 000<		Cobalt	0.000151	0.0001	0.001	NE	ſ		071830-009	SW846 6020
Iron         0.414         0.010         0.025         NE         U         071830-009           Mercury         ND         0.00065         0.0002         0.002         0.002         U         B3, UJ         071830-009           Mercury         ND         0.0005         0.0005         0.005         0.005         0.000         U         071830-009           Selenium         ND         0.0005         0.005         0.005         0.005         U         D         071830-009           Silver         ND         0.0002         0.001         NE         U         0.71830-009         071830-009           Silver         ND         0.0004         0.001         NE         U         0.71830-009           Antimory         ND         0.0004         0.001         NE         B, J         0.71830-009           Antimory         ND         0.0005         0.010         NE         B, J         0.71830-009           Antimory         ND         0.0005         0.010         NE         B, J         0.71830-009           Antimory         ND         0.0005         0.000         0.000         0.000         D         0.71830-009           Antimory <td< td=""><td></td><td>Copper</td><td>0.0011</td><td>0.0002</td><td>0.001</td><td>NE</td><td></td><td></td><td>071830-009</td><td>SW846 6020</td></td<>		Copper	0.0011	0.0002	0.001	NE			071830-009	SW846 6020
Lead         ND         0,0005         0,002         NE         U         G7/1830-009           Nickelin         0,000165         0,00005         0,0002         0,0002         0,0002         0	CWL-MW6U	Iron	0.414	0.010	0.025	NE			071830-009	SW846 6020
Mercury         ND         0,00005         0,0002         0,002         NE         J         07,830-009           Nityeel         0,00165         0,0005         0,0002         NE         J         07,1830-009           Silver         ND         0,0002         0,0001         NE         U         07,1830-009           Silver         ND         0,0002         0,0001         NE         U         07,1830-009           Tin         ND         0,0001         0,0001         NE         U         07,1830-009           Vanadium         ND         0,0001         0,0005         NE         U         07,1830-009           Zinc         ND         0,0002         0,000         NE         U         07,1830-009           Arsenic         ND         0,0002         0,000         NE         U         07,1830-009           Arsenic         ND         0,0001         0,000         0,000         NE         U         07,8910-009           Arsenic         ND         0,0005         0,000         0,000         NE         U         07,8910-009           Coppet         ND         0,0001         0,0005         0,000         NE         U         07,8910	19-Oct-05	Lead	ND	0.0005	0.002	NE	n		071830-009	SW846 6020
Nickel         0.00165         0.0005         0.005         NE         J         V1830-009           Selentium         ND         0.0005         0.005         0.050         U         0.71830-009           Sielentium         ND         0.0004         0.001         0.002         U         0.71830-009           Siverium         ND         0.0004         0.001         0.002         U         0.71830-009           Tin         ND         0.0004         0.001         NE         U         0.71830-009           Antimory         ND         0.0005         0.001         NE         U         0.71830-009           Antimory         ND         0.0005         0.0006         0.0006         0.000         0.000         0.000           Antimory         ND         0.0005         0.0005         0.000         0.000         0.000         0.000           Antimory         ND         0.0005         0.0005         0.000         0.000         0.000         0.000         0.000           Beryllium         ND         0.0005         0.0005         0.000         0.00         0.000         0.000         0.000         0.000         0.000         0.000         0.000		Mercury	ND	0.00005	0.0002	0.002	n	B3, UJ	071830-009	SW846 7470
Selentium         ND         0.0025         0.005         0.050         U         071830-009           Filter         ND         0.0002         0.001         NB         U         0.1830-009           Triallum         ND         0.0004         0.001         0.002         U         0           Tin         ND         0.0002         0.030         NB         U         0.71830-009           Zinc         ND         0.0002         0.030         NB         U         0.71830-009           Arsenic         ND         0.0005         0.0002         0.006         B.J         0.71830-009           Arsenic         ND         0.0015         0.005         0.006         B.J         0.71830-009           Arsenic         ND         0.0015         0.005         0.006         B.J         0.78910-009           Bartium         ND         0.0015         0.005         0.004         U         0.78910-009           Bartium         ND         0.0015         0.001         0.005         0.004         U         0.78910-009           Chromium         0.0015         0.001         0.002         0.00         U         0.78910-009           Coppert		Nickel	0.00165	0.0005	0.002	NE	ſ		071830-009	SW846 6020
Silver         ND         0,0002         0,001         NE         U         071830-009           Thallium         ND         0,0004         0,0001         0,0002         U         0,002         U         0,002         U         0,01830-009         0.003         0,0005         0,0005         NE         U         0,71830-009         0.003         0,0005         0,0006		Selenium	ND	0.0025	0.005	0.050	n		071830-009	SW846 6020
Thallium         ND         0.0004         0.001         D.002         U         071830-009           Tin         ND         0.001         0.005         NE         U         071830-009           Tin         ND         0.0072         0.030         NE         U         071830-009           Zinc         0.00738         0.002         0.010         NE         U         071830-009           Aritimony         ND         0.0005         0.005         0.006         B, U         076910-009           Arsenic         ND         0.0015         0.005         0.006         B, U         076910-009           Arsenic         ND         0.0015         0.005         0.006         B, U         076910-009           Arsenic         ND         0.0015         0.0005         0.006         B, U         076910-009           Beryllium         ND         0.0001         0.0005         0.001         0.0005         0.00         0.00           Cobalt         0.0015         0.0001         0.0001         0.0005         0.00         D         D           Copet         0.00175         0.0001         0.0002         0.001         NE         U         076910-009 <td></td> <td>Silver</td> <td>ND</td> <td>0.0002</td> <td>0.001</td> <td>NE</td> <td>Ω</td> <td></td> <td>071830-009</td> <td>SW846 6020</td>		Silver	ND	0.0002	0.001	NE	Ω		071830-009	SW846 6020
Tin         ND         0.001         0.005         NE         U         071830-009           Vanadum         ND         0.002         0.030         NE         U         0.71830-009           Antimony         ND         0.0022         0.001         0.006         0.002         0.006         0.006           Antimony         ND         0.0005         0.005         0.006         0.010         0.7691-009           Arsenic         ND         0.0005         0.005         0.006         0.006         0.006         0.006           Barium         0.0733         0.0005         0.006         0.004         0.006         0.006         0.006         0.006           Cadmium         ND         0.0001         0.0001         0.0001         0.006         <		Thallium	ND	0.0004	0.001	0.002	n		071830-009	SW846 6020
Vanadium         ND         0.002         0.030         NE         U         077830-009           Zinc         0.00738         0.002         0.010         NP         0.006 </td <td></td> <td>Tin</td> <td>QN</td> <td>0.001</td> <td>0.005</td> <td>Ŋ</td> <td>Ω</td> <td></td> <td>071830-009</td> <td>SW846 6020</td>		Tin	QN	0.001	0.005	Ŋ	Ω		071830-009	SW846 6020
Zinc         O.00738         0.002         0.010         NE         B. J         071830-009           Antimony         ND         0.0005         0.002         0.006         B. U         078910-009           Arsenic         ND         0.0005         0.005         0.010         0.006         0.006         0.006           Bartim         ND         0.0001         0.0005         0.004         0         0         0.005           Cadmium         ND         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001           Cabalt         0.00135         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001           Copper         0.00138         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         <		Vanadium	ND	0.002	0.030	NE	n		071830-009	SW846 6020
Antimony         ND         0.0005         0.0005         0.006         B, U         076910-009           Arsenic         ND         0.0015         0.005         0.010         U         076910-009           Barium         0.0733         0.0005         0.0005         0.004         0.004         0         0           Barium         ND         0.0001         0.0005         0.0005         0.0004         0         0         0         0           Cadmium         ND         0.0001         0.0001         0.0001         0.0001         0 <t< td=""><td></td><td>Zinc</td><td>0.00738</td><td>0.002</td><td>0.010</td><td>NE</td><td>В, Ј</td><td></td><td>071830-009</td><td>SW846 6020</td></t<>		Zinc	0.00738	0.002	0.010	NE	В, Ј		071830-009	SW846 6020
Arsenic         ND         0.0015         0.005         0.010         U         076910-009           Barium         0.0733         0.0005         0.002         2.0         0         076910-009           Beryllium         ND         0.0001         0.0005         0.004         U         076910-009           Chromium         ND         0.0001         0.0001         0.0001         0.0005         U         076910-009           Chromium         0.00175         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001           Cobalt         0.000175         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001           Iron         0.00113         0.0002         0.001         NE         U         0.76910-009           Mercury         ND         0.0005         0.0002         0.002         U         B3, UJ         0.76910-009           Nickel         0.00187         0.0005         0.0002         0.0002         U         B3, UJ         0.76910-009           Selenium         0.0027         0.0005         0.0005         0.0005         0.0005         U         0.76910-009           Tin<		Antimony	ND	0.0005	0.002	900.0	B, U		076910-009	SW846 6020
Barlum         0.0733         0.0005         0.004         U         0.76910-009           Beryllium         ND         0.0001         0.0005         0.004         U         0.76910-009           Cadmium         ND         0.0001         0.0001         0.0001         0.0001         0.005         U         0.76910-009           Chromium         0.00175         0.0001         0.0001         0.0001         0.0001         D         0.76910-009           Cobalt         0.00013         0.0001         0.0001         0.0001         0.0001         NE         J         0.76910-009           Iron         0.374         0.0102         0.002         NE         U         B, B2, J         0.76910-009           Mercury         ND         0.0005         0.002         NE         U         B3, UJ         0.76910-009           Nickel         0.00187         0.0005         0.0002         0.002         U         B3, UJ         0.76910-009           Silver         ND         0.0005         0.0002         0.005         0.005         J         0.76910-009           Tin         ND         0.0002         0.0005         0.0005         0.0005         J         0.76910-009		Arsenic	ND	0.0015	0.005	0.010	n		076910-009	SW846 6020
Beryllium         ND         0.0001         0.0005         0.0004         U         0.76910-009           Cadmium         ND         0.0001         0.0001         0.0005         U         0.76910-009           Chromium         0.00195         0.0001         0.0003         0.10         J         0.76910-009           Cobalt         0.000175         0.0001         0.0001         0.001         0.001         D         0.76910-009           Copper         0.0013         0.0002         0.001         NE         J         R.B.2.J         0.76910-009           Iron         0.374         0.010         0.0025         NE         U         B.B.2.J         0.76910-009           Mercury         ND         0.0005         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         J         0.76910-009           Silver         ND         0.0005         0.0005         0.0005         0.0005         0.0005         J         0.76910-009           Silver         ND         0.0005         0.0005         0.0005         0.0005         J         0.76910-009           Tin         ND         0.00024         0.0001         0.0001         0.0001		Barium	0.0733	0.0005	0.002	2.0			076910-009	SW846 6020
Cadmium         ND         0.0001         0.0001         0.0005         U         0.0050           Chromium         0.00195         0.001         0.003         0.10         J         0.76910-009           Chromium         0.000175         0.0001         0.0001         0.0001         0.0001         0.0001           Cobalt         0.000175         0.0001         0.0001         0.0001         0.0001         0.0001           Iron         0.00113         0.0002         0.001         0.001         0.001         0.001           Mercury         ND         0.0010         0.0002         0.002         0.002         0.002         0.002           Nickel         0.00187         0.0005         0.0005         0.002         0.005         0.005         0.005         0.005           Silver         ND         0.0002         0.0005		Beryllium	QN	0.0001	0.0005	0.004	D		076910-009	SW846 6020
Chromium         0.00195         0.0001         0.003         0.10         J         076910-009           Cobalt         0.000175         0.0001         0.0001         0.0001         NE         J         076910-009           Copper         0.00013         0.0002         0.001         NE         J         076910-009           Iron         0.374         0.010         0.025         NE         U         B, B2, J         076910-009           Iron         0.374         0.010         0.0025         0.002         NE         U         B3, UJ         076910-009           Mercury         ND         0.0005         0.0002         0.002         U         B3, UJ         076910-009           Nickel         0.00187         0.002         0.002         U         B3, UJ         076910-009           Silver         ND         0.0025         0.005         0.005         J         NE         U           Vanadium         0.00249         0.001         0.002         0.002         J         NE         J         R R J         R R J         R R J           Inc         0.00249         0.002         0.010         NF         J         R R J         R R J </td <td></td> <td>Cadmium</td> <td>QN</td> <td>0.0001</td> <td>0.001</td> <td>0.005</td> <td>D</td> <td></td> <td>076910-009</td> <td>SW846 6020</td>		Cadmium	QN	0.0001	0.001	0.005	D		076910-009	SW846 6020
Cobalt         0.000175         0.0001         0.0001         NE         J         076910-009           Copper         0.0013         0.0002         0.001         NE         B, B2, J         076910-009           Iron         0.374         0.010         0.025         NE         U         B, B2, J         076910-009           Iron         ND         0.0005         0.002         NE         U         B3, UJ         076910-009           Nickel         0.00187         0.0005         0.002         NE         J         NF         O76910-009           Selenium         0.00277         0.0025         0.005         J         NE         U         076910-009           Silver         ND         0.0002         0.001         NE         U         076910-009           Tin         ND         0.0004         0.001         NE         U         076910-009           Vanadium         0.0028         0.0030         NE         J         R B2 J         076910-009           Zinc         0.0027         0.002         0.030         NF         B J         R B2 J         076910-009		Chromium	0.00195	0.001	0.003	0.10	٦		076910-009	SW846 6020
Copper         0.0013         0.0002         0.001         NE         B, B2, J         076910-009           Iron         0.374         0.010         0.025         NE         U         0.76910-009           Lead         ND         0.0005         0.002         NE         U         0.76910-009           Mercury         ND         0.0005         0.002         NE         J         0.76910-009           Nickel         0.00187         0.0025         0.005         D.0050         J         0.76910-009           Selenium         0.00277         0.0025         0.005         D.0050         J         0.76910-009           Silver         ND         0.0002         0.001         D.0002         D.001         D.002           Tin         ND         0.001         0.001         D.002         D.002         D.002           Vanadium         0.00249         0.002         D.003         D.002         D.003         D.003           Zinc         0.00375         0.010         NF         B. J         R. J         D.76910-009		Cobalt	0.000175	0.0001	0.001	IJ	٦		076910-009	SW846 6020
Iron         0.374         0.010         0.025         NE         O         O76910-009           Lead         ND         0.0005         0.002         NE         U         B3, UJ         076910-009           Mercury         ND         0.0005         0.002         0.002         U         B3, UJ         076910-009           Nickel         0.00187         0.0025         0.005         0.050         J         076910-009           Selenium         0.00277         0.0025         0.005         J         0         076910-009           Silver         ND         0.0002         0.001         NE         U         076910-009           Tin         ND         0.0004         0.001         0.002         J         076910-009           Vanadium         0.00249         0.002         0.030         NE         J         R R2 J         076910-009           Zinc         0.00375         0.010         NF         R J         R R2 J         076910-009		Copper	0.00113	0.0002	0.001	NE			076910-009	SW846 6020
Lead         ND         0.0005         0.002         NE         U         B3, UJ         076910-009           Mercury         ND         0.0005         0.0002         0.002         U         B3, UJ         076910-009           Nickel         0.00187         0.0005         0.002         NE         J         076910-009           Selenium         0.00277         0.0025         0.005         J         076910-009           Silver         ND         0.0002         0.001         NE         U         076910-009           Tin         ND         0.0004         0.001         0.005         J         076910-009           Vanadium         0.00249         0.002         0.030         NE         J         R J         R R R J         R R R J	CWL-MW6U	Iron	0.374	0.010	0.025	NE			076910-009	SW846 6020
Lury         ND         0.00005         0.0002         0.0002         U         B3, UJ         076910-009           el         0.00187         0.0005         0.002         NE         J         0.76910-009         0.76910-009           nium         0.00277         0.0005         0.001         NE         U         0.76910-009         0.76910-009           lium         0.000528         0.0004         0.001         0.002         J         0.76910-009           Ilum         ND         0.001         0.005         NE         U         0.76910-009           Adium         0.00249         0.002         0.030         NE         J         R J         R R R J         0.76910-009	18-Apr-06	Lead	ND	0.0005	0.002	NE	Π		076910-009	SW846 6020
el         0.00187         0.0005         0.002         NE         J         076910-009           nium         0.00277         0.0025         0.005         J         0.050         J         076910-009           lium         0.000528         0.0004         0.001         NE         U         076910-009           Ilum         ND         0.001         0.005         NE         U         076910-009           Adium         0.00249         0.002         0.030         NE         J         076910-009           Adium         0.0025         0.010         NF         B.J         B.B.         B.B.		Mercury	ND	0.00005	0.0002	0.002	n	B3, UJ	076910-009	SW846 7470
nium         0.00277         0.0025         0.005         J         0.05910-009           Fr         ND         0.0002         0.001         NE         U         0.05910-009           Ilum         0.000528         0.0004         0.001         0.002         J         0.05910-009           Adium         0.00249         0.002         0.030         NF         B. J         B. B. B. B. J         0.76910-009		Nickel	0.00187	0.0005	0.002	NE	ſ		076910-009	SW846 6020
If The Mode of State of S		Selenium	0.00277	0.0025	0.005	0.050	ſ		076910-009	SW846 6020
lium         0.000528         0.0004         0.001         0.002         J         0.05910-009           adium         0.00249         0.002         0.030         NF         J         B.J         B.B.         B.B.         B.B.         D.76910-009		Silver	ND	0.0002	0.001	NE	n		076910-009	SW846 6020
Adium 0.00249 0.002 0.003 NF B.1 B.B.2.1 076910-009		Thallium	0.000528	0.0004	0.001	0.002	ſ		076910-009	SW846 6020
adium 0.00249 0.002 0.030 NE J B B 2.1 076910-009		Tin	ND	0.001	0.005	NE	D		076910-009	SW846 6020
0.00975   0.00975   0.000   0.		Vanadium	0.00249	0.002	0.030	Ŋ	7		076910-009	SW846 6020
0.000		Zinc	0.00975	0.002	0.010	Ŋ	В, Ј	B, B2, J	076910-009	SW846 6020

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## Table CWL B-7 Summary of Dissolved Chromium Results Chemical Waste Landfill Groundwater Monitoring

## Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier*	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
CWL-BW3 03-Oct-05	Dissolved Chromium	QN	0.001	0.003	0.10	ח		071806-013	SW846 6020
CWL-BW4A 12-Oct-05	Dissolved Chromium	QN	0.001	0.003	0.10	ס		071808-013	SW846 6020
CWL-MW2BL 05-Oct-05	Dissolved Chromium	QN	0.001	0.003	0.10	ח		071811-013	SW846 6020
CWL-MW2BL (Duplicate) 05-Oct-05	Dissolved Chromium	QN	0.001	0.003	0.10	ח		071812-013	SW846 6020
CWL-MW4 10-Oct-05	Dissolved Chromium	QN	0.001	0.003	0.10	ח		071818-013	SW846 6020
CWL-MW4 (Duplicate) 10-Oct-05	Dissolved Chromium	ND	0.001	0.003	0.10	ח		071819-013	SW846 6020
CWL-MW5L 04-Oct-05	Dissolved Chromium	QN	0.001	0.003	0.10	ח		071821-013	SW846 6020
CWL-MW5U 17-Oct-05	Dissolved Chromium	ND	0.001	0.003	0.10	n		071825-013	SW846 6020
CWL-MW6L 13-Oct-05	Dissolved Chromium	QN	0.001	0.003	0.10	ס		071827-013	SW846 6020
CWL-MW6U 19-Oct-05	Dissolved Chromium	0.0018	0.001	0.003	0.10	7		071830-013	SW846 6020
Refer to footnotes on page 29.									

**APPENDICES** 

#### Table CWLB-8 Summary of Field Water Quality Measurements<sup>†</sup> Chemical Waste Landfill Groundwater Monitoring

## Fiscal Year 2006

CWL-BW3         03-Oct-05         18.64           CWL-BW4A         07-Apr-06         15.83           CWL-BW4A         12-Oct-05         15.46           CWL-BW4A         05-Apr-06         17.42           CWL-MW2BL         26-Apr-06         22.11           CWL-MW2BU         24-Apr-06         14.28           CWL-MW4         11-Apr-06         18.91           CWL-MW5L         11-Apr-06         18.49           CWL-MW5L         17-Oct-05         17.34           CWL-MW5U         17-Oct-05         16.38           CWL-MW5U         14-Apr-06         18.44           CWL-MW6L         13-Oct-05         16.27           CWL-MW6L         20-Apr-06         15.91		Potential (mV)	Hd.	Turbidity (NTU)	Oxygen (% Sat)	Dissolved Oxygen (mg/L)
07-Apr-06 12-Oct-05 05-Apr-06 26-Apr-06 20-Oct-05 11-Apr-06 11-Apr-06 14-Apr-06 13-Oct-05 11-Apr-06 17-Oct-05 11-Apr-06		156.1	7.63	4.12	88.9	8.60
12-Oct-05 05-Apr-06 05-Oct-05 26-Apr-06 10-Oct-05 11-Apr-06 04-Oct-05 11-Apr-06 17-Oct-05 11-Apr-06 13-Oct-05		-16.8	7.48	5.39	72.8	7.14
05-Apr-06 05-Oct-05 26-Apr-06 20-Oct-05 24-Apr-06 11-Apr-06 04-Oct-05 17-Oct-05 11-Apr-06 13-Oct-05 20-Apr-06		184.3	7.07	1.95	25.3	2.51
05-Oct-05 26-Apr-06 20-Oct-05 24-Apr-06 10-Oct-05 11-Apr-06 17-Oct-05 14-Apr-06 13-Oct-05 20-Apr-06		130.0	6.83	0.77	66.1	6.30
26-Apr-06 20-Oct-05 24-Apr-06 10-Oct-05 11-Apr-06 17-Oct-05 14-Apr-06 13-Oct-05 20-Apr-06	.01 1,099	217.9	6.77	1.29	22.7	2.01
20-Oct-05 24-Apr-06 10-Oct-05 11-Apr-06 04-Oct-05 18-Apr-06 17-Oct-05 13-Oct-05		209.3	6.93	0.38	70.1	6.29
24-Apr-06 10-Oct-05 11-Apr-06 04-Oct-05 18-Apr-06 17-Oct-05 13-Oct-05 20-Apr-06	.28 920	109.0	8.65	1.31	41.0	4.52
10-Oct-05 11-Apr-06 04-Oct-05 17-Oct-05 0 14-Apr-06 13-Oct-05		203.0	8.67	32.5	2.06	9.26
11-Apr-06 04-Oct-05 18-Apr-06 17-Oct-05 13-Oct-05 L		23.7	06.90	9.50	17.6	1.65
04-Oct-05 18-Apr-06 17-Oct-05 14-Apr-06 13-Oct-05		34.4	6.61	4.50	57.5	5.37
18-Apr-06 17-Oct-05 14-Apr-06 13-Oct-05 20-Apr-06		189.6	6.98	1.32	86.3	7.96
17-Oct-05 14-Apr-06 13-Oct-05 20-Apr-06		206.5	6.93	3.38	81.4	7.93
14-Apr-06 13-Oct-05 20-Apr-06		172.4	7.01	1.87	50.6	4.82
13-Oct-05	44 928	96.2	6.83	0.41	59.3	5.52
20-Apr-06		198.3	6.85	1.53	37.2	3.65
		210.8	6.95	0.55	74.9	7.52
19-Oct-05 17.69	69   656	191.1	7.05	1.16	61.1	5.81
18-Apr-06 14.92	909 809	110.0	7.16	0.36	61.0	6.10

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#### Footnotes for Chemical Waste Landfill Groundwater Monitoring

#### <sup>a</sup>Result

- Values in bold exceed the established MCL.
- ND = not detected (at method detection limit).
- µg/L = micrograms per liter
- mg/L = milligrams per liter

#### **bMDL**

Method detection limit. The minimum concentration that can be measured and reported with 99% confidence that the analyte is greater than zero, analyte is matrix specific.

#### °PQL

Practical quantitation limit. The lowest concentration of analytes in a sample that can be reliably determined within specified limits of precision and accuracy by that indicated method under routine laboratory operating conditions.

#### **dMCL**

MCL = Maximum contaminant level. Established by the U.S. Environmental Protection Agency Primary Water Regulations (40 CFR 141.11(b)), and subsequent amendments or the New Mexico Environmental Improvement Board in Title 20, Chapter 7, Part 1 of the New Mexico Administrative Code (20 NMAC 7.1). NE = not established.

#### <sup>e</sup>Lab Qualifier

- B = Analyte is detected in associated laboratory method blank.
- J = Amount detected is below the practical quantitation limit (PQL).
- U = Analyte is absent or below the method detection limit.

#### Validation Qualifier

If cell is blank, then all quality control samples met acceptance criteria with respect to submitted samples.

- A2 = Laboratory accuracy and/or bias measurements for the matrix spike and/or matrix spike duplicate samples do not acceptance criteria.
- B = Analyte present in associated laboratory method blank.
- B1 = Analyte present in associated trip blank sample.
- B2 = Analyte present in associated equipment blank sample.
- B3 = Analyte present in associated continuing calibration blank.
- J = Associate value is an estimated quantity.
- P1 = Laboratory precision measurements for the matrix spike and matrix spike duplicate do not meet acceptance criteria.
- UJ = Analyte not detected above laboratory method detection limit, but associated value is an estimate and may be inaccurate or imprecise.
- #U = Analyte was qualified as not detected at listed value.
- #UJ = Analyte was qualified as not detected at listed estimated value.

#### <sup>9</sup>Analytical Method

- U.S. Environmental Protection Agency, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846
- U.S. Environmental Protection Agency, 1983, "The Determination of Inorganic Anions in Water by Ion Chromatography-Method 300.0," EPA-600/4-84-017.

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#### Footnotes for **Chemical Waste Landfill Groundwater Monitoring** (Concluded)

#### <sup>h</sup>Field Water Quality Measurements

Field measurements collected prior to sampling.

°C = degrees Celsius % Sat = percent Saturation

µmho/cm = micromhos per centimeter

mg/L = milligrams per liter

mV = millivolts NTU = nephelometric turbidity units

= potential of hydrogen (negative logarithm of the hydrogen ion concentration)

#### APPENDIX C

Mixed Waste Landfill Groundwater Monitoring Surveillance Task

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MWL-C1	Summary of Detected Volatile Organic Compounds, Mixed Waste Landfill Groundwater Monitoring, Fiscal Year 2006
MWL-C2	Method Detection Limits for Volatile Organic Compounds Mixed Waste Landfill Groundwater Monitoring, Fiscal Year 2006
MWL-C3	Summary of Nitrate plus Nitrite, Mixed Waste Landfill Groundwater Monitoring, Fiscal Year 2006
MWL-C4	Summary of Anion, and Alkalinity Results, Mixed Waste Landfill Groundwater Monitoring, Fiscal Year 2006
MWL-C5	Summary of Total Metal Results, Mixed Waste Landfill Groundwater Monitoring, Fiscal Year 2006
MWL-C6	Summary of Titium, gross Alpha, Gross Beta, and Gamma Spectroscopy Results, Mixed Waste Landfill Groundwater Monitoring, Fiscal Year 2006
MWL-C7	Summary of Field Water Quality Measurements, Mixed Waste Landfill Groundwater Monitoring, Fiscal Year 2006
Footnotes for	Mixed Waste Landfill Groundwater Monitoring

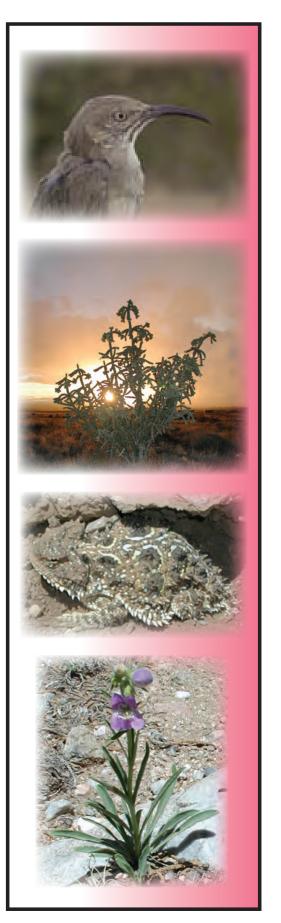


Table MWL C-1 Summary of Detected Volatile Organic Compounds Mixed Waste Landfill Groundwater Monitoring

Well ID	Analyte	Result <sup>a</sup> (µg/L)	MDL <sup>b</sup> (µg/L)	PQL° (µg/L)	MCL⁴ (µg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
MWL-BW1 18-Apr-06	Acetone	2.03	1.25	5.0	NE	٦	11.3U	076300-001	SW846 8260
MWL-MW1	Acetone	3.67	1.25	5.0	NE	٦	5.0U, B2	076304-001	SW846 8260
12-Apr-06	Carbon disulfide	1.27	1.25	5.0	JN	٦	5.0U, B2	076304-001	SW846 8260
MWL-MW2 10-Apr-06	Toluene	0.326	0.25	1.0	1,000	٦	1.0U, B1	076307-001	SW846 8260
MWL-MW3 13-Apr-06	Acetone	6.53	1.25	5.0	NE		6.53U, B2	076311-001	SW846 8260
MWL-MW4 06-Apr-06	Acetone	4.56	1.25	5.0	NE	٦	5.0U, B1	076313-001	SW846 8260
MWL-MW5 14-Apr-06	Acetone	1.59	1.25	5.0	NE	٦	5.0U, B2	076317-001	SW846 8260
MWL-MW6 17-Apr-06 Refer to footnoies on page 23	Acetone	1.89	1.25	5.0	NE	7		076319-001	SW846 8260

# Table MWL C-2 Method Detection Limits for Volatile Organic Compounds Mixed Waste Landfill Groundwater Monitoring

## Fiscal Year 2006

Analyte 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2,2-Trichloroethane 1,1,2-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 2-Butanone 2-Butanone 2-Hexanone Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon disulfide	(µg/L)  0.300  0.250  0.250  0.300  0.300  0.250  1.25  1.25  1.25  1.25  1.25  0.300  0.200  0.200	Analytical Method <sup>9</sup> SW846-8260
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroptane 1,2-Dichloroptane 2-Butanone 2-Hexanone 4-methyl-, 2-Pentanone Benzene Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon disulfide	0.300 0.250 0.300 0.300 0.250 0.250 1.25 1.25 1.25 1.25 0.300 0.250	SW846-8260
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropane 2-Butanone 2-Hexanone 4-methyl-, 2-Pentanone Acetone Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon disulfide	0.250 0.250 0.300 0.250 0.250 1.25 1.25 1.25 1.25 0.300 0.250	SW846-8260
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 2-Butanone 2-Hexanone 4-methyl-, 2-Pentanone Acetone Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon disulfide	0.250 0.300 0.250 0.250 1.25 1.25 1.25 1.25 0.300 0.250 0.250	SW846-8260
1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 2-Butanone 2-Hexanone 4-methyl-, 2-Pentanone Acetone Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon disulfide	0.300 0.300 0.250 0.250 1.25 1.25 1.25 1.25 0.300 0.250	SW846-8260
1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloropropane 2-Butanone 2-Hexanone 4-methyl-, 2-Pentanone Acetone Benzene Bromodichloromethane Bromodichloromethane Bromomethane Carbon disulfide	0.300 0.250 0.250 1.25 1.25 1.25 1.25 0.300 0.250	SW846-8260
1,2-Dichloroethane 1,2-Dichloropropane 2-Butanone 2-Hexanone 4-methyl-, 2-Pentanone Acetone Benzene Bromodichloromethane Bromoform Bromomethane Carbon disulfide	0.250 0.250 1.25 1.25 1.25 1.25 0.300 0.250	SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260
1,2-Dichloropropane 2-Butanone 2-Hexanone 4-methyl-, 2-Pentanone Acetone Benzene Bromodichloromethane Bromoform Bromothane Carbon disulfide	0.250 1.25 1.25 1.25 1.25 0.300 0.250	SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260
2-Butanone 2-Hexanone 4-methyl-, 2-Pentanone Acetone Benzene Bromodichloromethane Bromoform Bromoethane Carbon disulfide	1.25 1.25 1.25 0.300 0.250	SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260
2-Hexanone 4-methyl-, 2-Pentanone Acetone Benzene Bromodichloromethane Bromoform Bromoethane Carbon disulfide	1.25 1.25 1.25 0.300 0.250	SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260
4-methyl-, 2-Pentanone Acetone Benzene Bromodichloromethane Bromoform Bromomethane Carbon disulfide	1.25 1.25 0.300 0.250	SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260
Acetone Benzene Bromodichloromethane Bromoform Bromomethane Carbon disulfide	1.25 0.300 0.250	SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260
Benzene Bromodichloromethane Bromoform Bromomethane Carbon disulfide	0.300	SW846-8260 SW846-8260 SW846-8260 SW846-8260 SW846-8260
Bromodichloromethane Bromoform Bromomethane Carbon disulfide	0.250	SW846-8260 SW846-8260 SW846-8260 SW846-8260
Bromoform Bromomethane Carbon disulfide		SW846-8260 SW846-8260 SW846-8260
Bromomethane Carbon disulfide	0.250	SW846-8260 SW846-8260
Carbon disulfide	0.500	SW846-8260
	1.25	
Carbon tetrachloride	0.250	SW846-8260
Chlorobenzene	0.250	SW846-8260
Chloroethane	0.500	SW846-8260
Chloroform	0.250	SW846-8260
Chloromethane	0.500	SW846-8260
Dibromochloromethane	0.250	SW846-8260
Ethyl benzene	0.250	SW846-8260
Methylene chloride	2.00	SW846-8260
Styrene	0.250	SW846-8260
Tetrachloroethene	0.250	SW846-8260
Toluene	0.250	SW846-8260
Trichloroethene	0.250	SW846-8260
Vinyl acetate	1.50	SW846-8260
Vinyl chloride	0.500	SW846-8260
Xylene	0.250	SW846-8260
cis-1,2-Dichloroethene	0.300	SW846-8260
cis-1,3-Dichloropropene	0.250	SW846-8260
trans-1,2-Dichloroethene	0.300	SW846-8260
trans-1,3-Dichloropropene	0.250	SW846-8260

# Table MWL C-3 Summary of Nitrate plus Nitrite Results Mixed Waste Landfill Groundwater Monitoring

## Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Validation Qualifier <sup>e</sup> Qualifier <sup>e</sup>	Sample No.	Analytical Method <sup>g</sup>
MWL-BW1 18-Apr-06	Nitrate plus nitrite as N	4.58	0.140	0.500	10		076300-018	EPA 353.1
MWL-MW1 12-Apr-06	Nitrate plus nitrite as N	4.49	0.070	0.250	10		076304-018	EPA 353.1
MWL-MW1 (Duplicate) 12-Apr-06	Nitrate plus nitrite as N	4.47	0.070	0.250	10		076305-018	EPA 353.1
MWL-MW2 10-Apr-06	Nitrate plus nitrite as N	3.23	0.014	0.050	10		076307-018	EPA 353.1
MWL-MW3 13-Apr-06	Nitrate plus nitrite as N	3.79	0.070	0.250	10		076311-018	EPA 353.1
MWL-MW4 06-Apr-06	Nitrate plus nitrite as N	1.91	0.070	0.250	10	В	076313-018	EPA 353.1
MWL-MW5 14-Apr-06	Nitrate plus nitrite as N	0.911	0.140	0.500	10		076317-018	EPA 353.1
MWL-MW6 17-Apr-06	Nitrate plus nitrite as N	0.877	0.014	0.050	10		076319-018	EPA 353.1
CC								

Refer to footnotes on page 23.

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## Summary of Anion and Alkalinity Results Mixed Waste Landfill Groundwater Monitoring Table MWL C-4

MWL-MW1 PW1 PW1 PW1 PW1 PW1 PW1 PW1 PW1 PW1 P	Well ID	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
the profite beauty of		Bromide	0.234	990.0	0.200	NE			076300-016	SW846 9056
Fluentide		Chloride	26.8	0.132	0.400	NE			076300-016	SW846 9056
Sulfate	MWL-BW1 18-Apr-06	Fluoride	0.766	0.033	0.100	4.0			076300-016	SW846 9056
Maclinity   183   N/A   N/A   NE   None   None   FIELD		Sulfate	42.2	0.200	0.800	NE			076300-016	SW846 9056
Hountide		Alkalinity	193	N/A	N/A	NE	None	None	FIELD	HACH 8203
Houride Sulfate 0.827 0.033 0.100 NE O		Bromide	0.243	990.0	0.200	NE NE			076304-016	SW846 9056
Fluoride		Chloride	32.1	0.330	1.00	NE			076304-016	SW846 9056
Housing Sulfate 44.2 0.500 2.00 NE None None Office	MWL-MW1 12-Apr-06	Fluoride	0.927	0.033	0.100	4.0			076304-016	SW846 9056
Alkalinity         192         N/A         NIA         NE         None         None         FIELD           Hounde         0.230         0.066         0.200         NE         0.000		Sulfate	44.2	0.500	2.00	NE NE			076304-016	SW846 9056
Hounide (Louding Library)         Chloride (Louding Library)         Chloride (Louding Library)         0.036         0.200         NE         NE         0.076305-016         0.0763		Alkalinity	192	N/A	N/A	NE NE	None	None	FIELD	HACH 8203
1 (Duplicate)         Chloride         32.3         0.330         1.00         NE         PM         076305-016         076305-016         0.10         NE         NE         0.00         0.0		Bromide	0.230	990.0	0.200	NE			076305-016	SW846 9056
Flucride 0.903 0.033 0.100 A.0 NE OPOS 0.0500-016 0.0500 NE OPOS 0.006 0.200 0.200 0.200 NE OPOS 0.200	MWL-MW1 (Duplicate)	Chloride	32.3	0:330	1.00	NE NE			076305-016	SW846 9056
Suffate         43.6         0.500         0.20         NE         Promide         076305-016           Bromide         0.249         0.066         0.200         NE         PR         076307-016           Chloride         39.5         0.660         2.00         NE         B         076307-016           Fluoride         0.838         0.033         0.100         0.40         NE         B         076307-016           Akalinity         196         N/A         N/A         NE         None         None         FIELD           Bromide         0.263         0.066         0.200         NE         None         None         FIELD           Akalinity         196         N/A         N/A         NE         NO         0.030         0.000           Akalinity         100         0.330         0.100         NA         NB         NO         0.031-016         0.031-016           Akalinity         175         N/A         N/A         NB         NB         0.031-016         0.031-016         0.031-016         0.031-016         0.031-016         0.031-016         0.031-016         0.031-016         0.031-016         0.031-016         0.031-016         0.031-016         0.03	12-Apr-06	Fluoride	0.903	0.033	0.100	4.0			076305-016	SW846 9056
Promide         0.249         0.066         0.200         NE         0.6307-016         0.6307-016           Chloride         39.5         0.660         2.00         NE         B         0.6307-016		Sulfate	43.6	0.500	2.00	NE			076305-016	SW846 9056
Chloride         39.5         0.660         2.00         NE         B         076307-016           Fluoride         0.838         0.033         0.100         4.0         B         076307-016           Sulfate         38.6         0.100         0.400         NE         B         076307-016           Alkalinity         196         N/A         N/A         NE         None         FIELD           Chloride         0.263         0.066         0.200         NE         None         FIELD           Sulfate         0.957         0.066         0.200         NE         None         07631-016           Alkalinity         175         N/A         N/A         NE         None         None           Provide         0.287         0.060         0.200         NE         None         076313-016           Alkalinity         175         N/A         N/A         NE         None         076313-016           Alkalinity         0.097         0.100         0.400         NE         None         076313-016           Alkalinity         186         N/A         N/A         NE         None         076313-016		Bromide	0.249	0.066	0.200	NE			076307-016	SW846 9056
Fluoride 0.838 0.033 0.100 NE B 076307-016 D  Sulfate 38.6 0.100 0.400 NE B 076307-016 D  Romide 0.263 0.066 0.200 NE None None FIELD  Sulfate 39.2 0.066 0.200 NE NONE NONE NONE NONE NOTE OT6311-016 D  Sulfate 0.957 0.100 0.400 NE NONE NONE NONE NONE NONE NOTE NOTE N		Chloride	39.5	0.660	2.00	NE			076307-016	SW846 9056
Sulfate         38.6         0.100         0.400         NE         B         O76307-016           Alkalinity         196         N/A         N/A         NE         None         FIELD           Bromide         0.263         0.066         0.200         NE         None         O76311-016           Chloride         31.0         0.330         1.00         NE         NE         O76311-016           Sulfate         39.2         0.100         0.400         NE         NOne         O76311-016           Alkalinity         175         N/A         N/A         NE         None         FIELD           Chloride         0.287         0.066         0.200         NE         None         O76313-016           Alkalinity         49.1         0.660         2.00         NE         B         O76313-016           Alkalinity         35.5         0.100         0.400         NE         B         O76313-016           Alkalinity         186         N/A         N/A         NE         B         O76313-016	MWL-MW2 10-Apr-06	Fluoride	0.838	0.033	0.100	4.0	В		076307-016	SW846 9056
Alkalinity 196 N/A N/A N/A NE None None FIELD FIELD Sumide 0.263 0.066 0.200 NE NE NONE NONE 0.76311-016 0.76311-016 NE NE NONE NE NONE NONE NONE NONE NONE		Sulfate	38.6	0.100	0.400	NE	В		076307-016	SW846 9056
Bromide         0.263         0.266         0.200         NE         Per Chloride         0.76311-016         Per Chloride         0.330         0.100         NE         Per Chloride         0.76311-016         Per Chloride         0.033         0.100         0.400         NE         None         None         PELD         PELD         PELD           Alkalinity         175         N/A         N/A         N/A         N/B         None         None         PELD         PELD           Chloride         0.287         0.0660         2.00         NE         NE         None         0.76313-016         PELD           Fluoride         0.997         0.033         0.100         0.400         NE         B         0.76313-016         PELD           Alkalinity         186         N/A         N/A         NE         None         PELD         0.76313-016         PELD		Alkalinity	196	N/A	N/A	NE	None	None	FIELD	HACH 8203
Sulfate Choride 31.0 0.330 1.00 NE NE Choride 076311-016 076311-01		Bromide	0.263	0.066	0.200	NE			076311-016	SW846 9056
3 Elucride         0.951         0.033         0.100         4.0         A.0         Designation         Of6311-016         Off9311-016         Off9311-0		Chloride	31.0	0.330	1.00	NE			076311-016	SW846 9056
Sulfate         39.2         0.100         0.400         NE         None         0.76311-016           Alkalinity         175         N/A         N/A         NE         None         FIELD           Bromide         0.287         0.066         0.200         NE         P         0.76313-016           Chloride         49.1         0.660         2.00         NE         B         0.76313-016           Fluoride         0.997         0.100         0.400         NE         B         0.76313-016           Sulfate         35.5         0.100         N/A         N/A         NE         None         FIELD	MWL-MW3 13-Apr-06	Fluoride	0.951	0.033	0.100	4.0			076311-016	SW846 9056
Alkalinity         175         N/A         N/A         NE         None         FIELD           Bromide         0.287         0.066         0.200         NE         0.0531-016         0.0531-016           Chloride         49.1         0.660         2.00         NE         B         0.76313-016           Fluoride         0.997         0.033         0.100         N.40         B         0.76313-016           Sulfate         35.5         0.100         0.400         NE         B         0.76313-016           Alkalinity         186         N/A         N/A         N         None         FIELD	) 	Sulfate	39.2	0.100	0.400	NE			076311-016	SW846 9056
Auraide         0.287         0.066         0.200         NE         P         0.6313-016           Chloride         49.1         0.660         2.00         NE         B         0.76313-016           Fluoride         0.997         0.033         0.100         A.0         B         0.76313-016           Sulfate         35.5         0.100         0.400         NE         B         0.76313-016           Alkalinity         186         N/A         N/A         NB         None         FIELD		Alkalinity	175	N/A	N/A	NE	None	None	FIELD	HACH 8203
Chloride         49.1         0.660         2.00         NE         P         076313-016           Fluoride         0.997         0.033         0.100         4.0         B         076313-016           Sulfate         35.5         0.100         0.400         NE         B         076313-016           Alkalinity         186         N/A         N/A         NE         None         FIELD		Bromide	0.287	0.066	0.200	NE			076313-016	SW846 9056
4 Elucride         0.097         0.033         0.100         4.0         B         0.76313-016         76313-016           Sulfate         35.5         0.100         0.400         NE         B         0.76313-016         76313-016           Alkalinity         186         N/A         N/A         NE         None         None         FIELD		Chloride	19.1	0.660	2.00	NE			076313-016	SW846 9056
Sulfate         35.5         0.100         0.400         NE         B         076313-016           Alkalinity         186         N/A         N/A         NE         None         None         FIELD	MWL-MW4 06-Apr-06	Fluoride	0.997	0.033	0.100	4.0	В		076313-016	SW846 9056
186 N/A N/A NE None FIELD	1	Sulfate	35.5	0.100	0.400	NE	В		076313-016	SW846 9056
		Alkalinity	186	N/A	N/A	NE	None	None	FIELD	HACH 8203

## Summary of Anion and Alkalinity Results Mixed Waste Landfill Groundwater Monitoring Table MWL C-4 (Concluded)

WellID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Aluminum	0.091	0.005	0.015	NE			076300-009	SW846 6020
	Antimony	0.000582	0.0005	0.002	900.0	7	В3, Ј	076300-009	SW846 6020
	Arsenic	0.00189	0.0015	0.005	0.010	ſ		600-00£920	SW846 6020
	Barium	0.0625	0.0005	0.002	2.0			076300-009	SW846 6020
	Beryllium	QN	0.0001	0.0005	0.004	ס		076300-009	SW846 6020
	Cadmium	0.000193	0.0001	0.001	0.005	٦		076300-009	SW846 6020
	Calcium	26.5	0.020	0.100	ШN	В		076300-009	SW846 6020
	Chromium	0.0234	0.001	0.003	0.10			076300-009	SW846 6020
	Cobalt	0.000349	0.0001	0.001	NE	٦		076300-009	SW846 6020
	Copper	0.00415	0.0002	0.001	NE			076300-009	SW846 6020
	Iron	0.361	0.010	0.025	IJ N	В		076300-009	SW846 6020
	Lead	0.00167	0.0005	0.002	ШN	٦		076300-009	SW846 6020
MWL-BW1	Magnesium	19.0	0.005	0.015	NE			076300-009	SW846 6020
18-Apr-06	Manganese	0.0054	0.001	0.005	NE			600-008920	SW846 6020
	Mercury	QN	0.00005	0.0002	0.002	n	B3, UJ	076300-009	SW846 7470
	Nickel	0.068	0.0005	0.002	NE			076300-009	SW846 6020
	Potassium	4.12	0.080	0.300	NE			600-008920	SW846 6020
	Selenium	ND	0.0025	0.005	0:050	n		600-00£920	SW846 6020
	Silver	ND	0.0002	0.001	NE	n		600-00£920	SW846 6020
	Sodium	49.3	0.800	2.50	NE			600-00£9/0	SW846 6020
	Thallium	0.00059	0.0004	0.001	0.002	٦		600-00£920	SW846 6020
	Uranium	0.00554	0.00005	0.0002	0:030			600-00£920	SW846 6020
	Uranium-235	0.000039	0.00001	0.00007	0:030	ſ		600-00£920	SW846 6020
	Uranium-238	0.0055	0.00005	0.0002	0:030			600-00£920	SW846 6020
	Vanadium	0.00434	0.002	0:030	NE	ſ		600-00£920	SW846 6020
	Zinc	0.0455	0.002	0.010	NE	В		076300-009	SW846 6020

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
WWL-MW1	Aluminum	0.0244	0.005	0.015	빙	В	B, B2, J	076304-009	SW846 6020
12-Apr-06	Antimony	0.000535	0.0005	0.002	900.0	В, Ј	В, ВЗ, Ј	076304-009	SW846 6020
	Arsenic	QN	0.0015	0.005	0.010	ס		076304-009	SW846 6020
	Barium	0.0636	0.0005	0.002	2.0			076304-009	SW846 6020
	Beryllium	QN	0.0001	0.0005	0.004	ס		076304-009	SW846 6020
	Cadmium	QN	0.0001	0.001	0.005	ס		076304-009	SW846 6020
	Calcium	47.5	0.020	0.100	빙	В		076304-009	SW846 6020
	Chromium	0.219	0.001	0.003	0.10			076304-009	SW846 6020
	Chromium (reanalysis)	0.232	0.001	0.003	0.10		٦	076304-R09	SW846 6020
	Cobalt	0.00177	0.0001	0.001	빙			076304-009	SW846 6020
	Copper	0.00703	0.0002	0.001	빙		В, Ј	076304-009	SW846 6020
	Iron	1.67	0.010	0.025	N	В		076304-009	SW846 6020
	Lead	QN	0.0005	0.002	N.	n		076304-009	SW846 6020
	Magnesium	17.2	0.005	0.015	NE			076304-009	SW846 6020
	Manganese	0.0236	0.001	0.005	N			076304-009	SW846 6020
	Mercury	QN	0.00005	0.0002	0.002	n		076304-009	SW846 7470
	Nickel	0.467	0.0005	0.002	NE			076304-009	SW846 6020
	Potassium	3.13	0.080	0.300	NE			076304-009	SW846 6020
	Selenium	ND	0.0025	0.005	0.050	n		076304-009	SW846 6020
	Silver	QN	0.0002	0.001	NE	n		076304-009	SW846 6020
	Sodium	44.3	0.080	0.250	N			076304-009	SW846 6020
	Thallium	0.000518	0.0004	0.001	0.002	ſ		076304-009	SW846 6020
	Uranium	0.00531	0.00005	0.0002	0:030			076304-009	SW846 6020
	Uranium-235	0.000037	0.00001	0.00007	0:030	٦		076304-009	SW846 6020
	Uranium-238	0.00527	0.00005	0.0002	0:030			076304-009	SW846 6020
	Vanadium	QN	0.002	0:030	NE	n		076304-009	SW846 6020
	Zinc	0.0111	0.002	0.010	JN.	В	B, B2, J	076304-009	SW846 6020

## Fiscal Year 2006

Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium	0.0302 ND ND 0.0655 ND	L		1				
Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium	ON DO 0.06555 ON DO ND DO ND ON DO ND DO ND DO N	c00.0	0.015	岁	В		076305-009	SW846 6020
Arsenic Barium Beryllium Cadmium Calcium Chromium	0.0655 ND ND	0.0005	0.002	0.006	B, U		076305-009	SW846 6020
Beryllium Cadmium Calcium Chromium Chromium Chromium Chromium Chromium Chromium Chromium Cobper	0.0655 ND ND	0.0015	0.005	0.010	Э		076305-009	SW846 6020
Beryllium Cadmium Calcium Chromium Chromium Chromium (reanalysis) Cobalt Copper	Q Q	0.0005	0.002	2.0			076305-009	SW846 6020
Calcium Calcium Chromium Chromium Chromium Chromium Cobalt Copper	QN	0.0001	0.0005	0.004	ח		076305-009	SW846 6020
Calcium Chromium Chromium (reanalysis) Cobalt Copper		0.0001	0.001	0.005	ס		076305-009	SW846 6020
Chromium (reanalysis) Cobalt Copper	48.3	0.020	0.100	岁	В		076305-009	SW846 6020
Chromium (reanalysis) Cobalt Copper	0.208	0.001	0.003	0.10			076305-009	SW846 6020
Cobalt Copper	0.197	0.001	0.003	0.10		7	076305-R09	SW846 6020
Copper	0.00178	0.0001	0.001	IJN.			076305-009	SW846 6020
•••	0.00677	0.0002	0.001	빙		В, Ј	076305-009	SW846 6020
Iron	1.64	0.010	0.025	IJ.	В		076305-009	SW846 6020
Lead	QN	0.0005	0.002	빙	ס		076305-009	SW846 6020
MWL-MW1 (Duplicate) Magnesium 12-Apr-06	17.4	0.005	0.015	ЫN			076305-009	SW846 6020
Manganese	0.0232	0.001	0.005	NE			076305-009	SW846 6020
Mercury	0.00081	0.00005	0.0002	0.002			076305-009	SW846 7470
Nickel	0.477	0.0005	0.002	ШN			076305-009	SW846 6020
Potassium	3.37	0.080	0.300	岁			076305-009	SW846 6020
Selenium	QN	0.0025	0.005	0.050	n		076305-009	SW846 6020
Silver	QN	0.0002	0.001	IJN.	ס		076305-009	SW846 6020
Sodium	47.7	0.080	0.250	NE			076305-009	SW846 6020
Thallium	QN	0.0004	0.001	0.002	ס		076305-009	SW846 6020
Uranium	0.00537	0.00005	0.0002	0:030			076305-009	SW846 6020
Uranium-235	0.000036	0.00001	0.00007	0:030	ľ		076305-009	SW846 6020
Uranium-238	0.00533	0.00005	0.0002	0:030			076305-009	SW846 6020
Vanadium	ND	0.002	0.030	NE	U		076305-009	SW846 6020
Zinc	0.0105	0.002	0.010	ЫN	В	В, В2, Ј	076305-009	SW846 6020

**APPENDICES** 

nony         0.048         0.005         0.015         NE           nich         0.0005         0.002         0.006         U           nich         0.002033         0.0015         0.006         U           m         0.0992         0.0005         0.000         1.0           m         0.0992         0.0005         0.0004         0.0           nium         ND         0.0001         0.0005         0.004           nium         ND         0.0001         0.0004         U           nium         ND         0.0001         0.0004         U           nium         0.00271         0.0001         0.0005         U           nium         0.00075         0.0001         0.000         U           nium         0.00075         0.0001         0.000         U           er         0.0005         0.0001         NE         B         B           er         0.0005         0.0002         0.0002         B         U         B           er         0.0005         0.0005         0.0002         B         U         B         D           er         0.0005         0.0005         0.0002	Well ID	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
Antimony         ND         0.0005         0.002         0.006         U           Arsenic         0.00203         0.0015         0.005         0.010         J           Barlum         0.0992         0.0005         0.002         2.0         R           Beryllium         ND         0.0001         0.0005         0.004         U         R           Cadmium         ND         0.0001         0.0015         0.001         0.001         D         B           Calcium         0.00271         0.001         0.001         0.001         D         D         B         B         B         D         C         C         C         C         C         C         D </td <td></td> <td>Aluminum</td> <td>0.048</td> <td>0.005</td> <td>0.015</td> <td>NE</td> <td></td> <td></td> <td>076307-009</td> <td>SW846 6020</td>		Aluminum	0.048	0.005	0.015	NE			076307-009	SW846 6020
Arsenic         0.00203         0.0015         0.005         0.001         J           Barlum         0.0992         0.0005         0.002         2.0         N           Beryllum         ND         0.0001         0.0005         0.004         U           Cadmium         ND         0.0001         0.001         0.005         U           Calcium         50.1         0.200         1.00         J         B.J           Calcium         50.1         0.2001         0.001         D         J         B.J           Calcium         0.0015         0.001         0.001         D         J         B.J         B.J           Cobalt         0.0015         0.001         0.001         NE         B.J         B.J         B.J           Inon         0.0015         0.001         0.002         NE         B.J         B.J         B.J           Lead         0.00058         0.0005         0.0005         NE         B.J         B.J         B.J           Manganeseum         18.1         0.0005         0.0005         0.0005         NE         B.J         B.J           Marcury         ND         0.0005         0.0005         0.		Antimony	QN	0.0005	0.002	900'0	n		076307-009	SW846 6020
Baritum         0.0992         0.0005         0.002         2.0         Mode		Arsenic	0.00203	0.0015	0.005	0.010	ר		076307-009	SW846 6020
Beryllium         ND         0.0001         0.0005         U         D           Cadmium         ND         0.0001         0.001         0.005         U         D           Calcium         50.1         0.200         1.00         NE         B         B         B           Calcium         50.1         0.200         1.00         0.001         0.00         J         B         B         B         B         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         J         B         J         J         B         J         J         B         J         J         B         J		Barium	0.0992	0.0005	0.002	2.0			076307-009	SW846 6020
Cadmium         ND         0.0001         0.001         0.005         U         ND           Calcium         50.1         0.200         1.00         NE         B         N           Chromium         0.00271         0.001         0.003         0.10         J         B,J         N           Chromium         0.0015         0.0001         0.001         0.001         J         B,J         B,J         N           Copper         0.0015         0.0002         0.001         NE         B         B,J         <		Beryllium	QN	0.0001	0.0005	0.004	ח		076307-009	SW846 6020
Calcium         50.1         0.200         1.00         NE         B         Chromium           Chromium         0.00271         0.001         0.003         0.10         J         B,J           Cobalt         0.000535         0.0001         0.001         NE         J         B,J           Copper         0.0015         0.0002         0.001         NE         B         B,J           Iron         0.377         0.010         0.025         NE         B         B,J           Lead         0.00088         0.0005         0.002         NE         B         B,J           Lead         0.00088         0.0005         0.005         NE         B         B,J           Magnesium         18.1         0.005         0.005         NE         B,U         B3,UJ           Mercury         ND         0.0005         0.0005         NE         B,U         B3,UJ           Nickel         ND         0.0005         0.0005         0.005         NE         N           Selenium         ND         0.0005         0.005         0.050         N           Silver         ND         0.0005         0.000         N		Cadmium	QN	0.0001	0.001	0.005	n		076307-009	SW846 6020
Chromium         0.00271         0.001         0.003         0.10         J         B,J           Cobalt         0.000535         0.0001         0.001         NE         J         B,J           Copper         0.0015         0.0002         0.001         NE         B         B,J         P           Iron         0.377         0.010         0.025         NE         B         B,J         P           Lead         0.00088         0.0005         0.005         NE         B         B,J         P           Magnesium         18.1         0.005         0.005         NE         B,U         B3,UJ         P           Mercury         ND         0.0005         0.0005         NE         B,U         B3,UJ         P           Nickel         0.00676         0.0005         0.0002         NE         B,U         B3,UJ         P           Selenium         ND         0.0025         0.0005         0.005         0.005         D         D         D           Sodium         A4.6         0.080         0.005         0.000         D         D         D         D         D         D         D         D         D         D<		Calcium	50.1	0.200	1.00	뵘	В		076307-009	SW846 6020
Cobalt         0.000535         0.0001         0.001         NE         J           Copper         0.0015         0.0002         0.001         NE         B         B, J           Iron         0.377         0.010         0.025         NE         B         B, J         B           Lead         0.00088         0.0005         0.002         NE         B         B, J         B         B, J           Magnesium         18.1         0.005         0.005         NE         B, U         B3, U         B           Mercury         ND         0.00056         0.0002         0.002         B, U         B3, U         B           Nickel         0.00076         0.0005         0.0002         D, O         B, U         B3, U         B3, U           Nickel         0.00076         0.0005         0.000         D, E         B, U         B3, U         B3, U           Nickel         0.00076         0.0005         0.0000         0.050         U         B3, U         B3, U         B3, U           Selenium         ND         0.0002         0.000         0.050         U         D         U         D         D         U         D         D </td <td></td> <td>Chromium</td> <td>0.00271</td> <td>0.001</td> <td>0.003</td> <td>0.10</td> <td>٦</td> <td>B,J</td> <td>076307-009</td> <td>SW846 6020</td>		Chromium	0.00271	0.001	0.003	0.10	٦	B,J	076307-009	SW846 6020
Copper         0.0015         0.0002         0.001         NE         B         B, J           Iron         0.377         0.010         0.025         NE         B         B, J         I           Lead         0.00088         0.0005         0.005         0.015         NE         B, J         I           Magnesium         18.1         0.0005         0.005         0.005         NE         B3, U         I           Marganese         0.00561         0.0005         0.0002         0.002         B3, U         B3, U         I           Mercury         ND         0.0005         0.0002         0.002         B3, U         B3, U         I           Nickel         0.00676         0.0005         0.000         NE         B3, U         I           Selenium         ND         0.0025         0.006         0.000         NE         N         I           Selenium         ND         0.0002         0.000         NE         N         I         I           Selenium         ND         0.0002         0.000         0.000         I         I         I         I           Selenium         ND         0.0000         0.000		Cobalt	0.000535	0.0001	0.001	Ŋ	٦		076307-009	SW846 6020
Iron         0.377         0.010         0.025         NE         B         B, J           Lead         0.00088         0.0005         0.005         0.005         0.005         0.005         NE         J         P           Magnesium         18.1         0.005         0.001         0.005         NE         B, U         B3, UJ         N           Mercury         ND         0.0005         0.0005         0.0002         NE         B3, UJ         N           Nickel         0.00676         0.0005         0.0002         NE         B3, UJ         N           Nickel         0.00676         0.0005         0.000         NE         B3, UJ         N           Nickel         ND         0.0005         0.000         NE         D         N         D           Selenium         ND         0.0025         0.005         0.050         U         D         N         D         N         D         N         D         N         D         N         D         N         D         N         D         N         D         N         D         N         D         N         D         N         D         N         D <td< td=""><td></td><td>Copper</td><td>0.0015</td><td>0.0002</td><td>0.001</td><td>뵘</td><td></td><td></td><td>076307-009</td><td>SW846 6020</td></td<>		Copper	0.0015	0.0002	0.001	뵘			076307-009	SW846 6020
Lead         0.00088         0.0005         0.0015         NE         J           Magnesium         18.1         0.005         0.015         NE         NE         NB         NB           Manganese         0.00551         0.001         0.005         0.002         0.002         B, U         B3, UJ         NB           Nickel         0.00676         0.0005         0.002         NE         NB         B3, UJ         NB           Potassium         4.52         0.080         0.300         NE         NB         U         NB		Iron	0.377	0.010	0.025	뵘	В		076307-009	SW846 6020
Magnesium         18.1         0.005         0.015         NE         NE           Manganese         0.00551         0.0005         0.005         NE         B. U         B3, UJ           Mercury         ND         0.0005         0.0002         0.002         B, U         B3, UJ           Nickel         0.00676         0.0005         0.002         NE         B3, UJ         B3, UJ           Nickel         0.00676         0.0080         0.300         NE         D         B3, UJ           Selenium         ND         0.0025         0.005         U         D         D           Sodium         A4.6         0.0002         0.000         U         D         D           Inallium         0.00058         0.0004         0.0001         0.0002         J         D           Uranium-235         0.000046         0.00005         0.0000         0.030         J         D           Vanadium         0.00072         0.030         NE         J         D         D		Lead	0.00088	0.0005	0.002	Ä	7		076307-009	SW846 6020
Manganese         0.00551         0.001         0.005         NE         B3, UJ           Mercury         ND         0.00056         0.0002         0.002         B, U         B3, UJ           Nickel         0.00676         0.0005         0.002         NE         P         B3, UJ           Potassium         4.52         0.080         0.300         NE         U         P           Selenium         ND         0.0025         0.005         0.050         U         D         D           Silver         ND         0.0002         0.001         NE         U         D         D           Sodium         44.6         0.080         0.250         NE         U         D         D           Inallium         0.00058         0.0004         0.0002         0.030         J         D         D           Uranium-235         0.000046         0.00005         0.0000         0.0000         D         D         D         D           Vanadium         0.00721         0.002         0.030         NE         J         D         D	MWL-MW2	Magnesium	18.1	0.005	0.015	Ŋ			076307-009	SW846 6020
ury         ND         0.00005         0.0002         0.0002         B, U         B3, UJ           ssium         4.52         0.0080         0.300         NE         N         0.00           rium         ND         0.0025         0.005         0.050         U         0.0           r         ND         0.0002         0.001         NE         U         0.0           r         ND         0.0002         0.001         NE         U         0.0           r         A4.6         0.080         0.250         NE         J         0.0           r         0.00058         0.0004         0.001         0.002         J         0.0           r         0.000623         0.00005         0.0000         J         D         0.0           r         0.00046         0.00005         0.0000         0.030         J         D         0.0           r         0.00019         0.0002         0.030         NE         J         D         D	10-Apr-06	Manganese	0.00551	0.001	0.005	NE			076307-009	SW846 6020
sil         0.00676         0.0005         NE         NE           ssium         4.52         0.080         0.300         NE         N           sium         ND         0.0025         0.005         U         N           Im         ND         0.0002         0.001         NE         U         N           Im         44.6         0.080         0.250         NE         J         N         N           Imm         0.00058         0.0004         0.001         0.002         J         N         N         N           Imm         0.00623         0.00005         0.0000         0.030         J         N         N         N           Imm-235         0.000046         0.00007         0.030         J         N         N         N         N           dium         0.00071         0.0002         0.030         N         J         N		Mercury	QN	0.00005	0.0002	0.002	B, U	B3, UJ	076307-009	SW846 7470
ssium         4.52         0.080         0.300         NE         O         O           ium         ND         0.0025         0.005         0.050         U         P           imm         44.6         0.080         0.250         NE         U         P           um         0.00058         0.0004         0.001         0.002         J         P           um         0.000623         0.00005         0.0000         J         P         P           um-235         0.000046         0.00007         0.030         J         P         P           um-238         0.00019         0.00005         0.030         J         P         P           dium         0.00721         0.002         NE         J         P         P		Nickel	0.00676	0.0005	0.002	Ŋ			076307-009	SW846 6020
ium         ND         0.0025         0.005         0.050         U         P           imm         44.6         0.0002         0.001         NE         U         P           imm         44.6         0.080         0.250         NE         D         P           imm         0.00058         0.0004         0.001         0.002         D         D         P           imm         0.00623         0.00005         0.0000         0.030         D         D         P           imm-235         0.000046         0.00007         0.030         D         D         P         P           idium         0.00721         0.002         0.030         NE         J         P         P		Potassium	4.52	0.080	0.300	뵘			076307-009	SW846 6020
Imm         ND         0.0002         0.001         NE         U         ME           Imm         44.6         0.080         0.250         NE         J         Imm           Imm         0.00058         0.0004         0.001         0.002         J         Imm           Imm         0.00623         0.00005         0.0000         J         Imm         Imm           Imm-236         0.000046         0.00005         0.0000         0.030         J         Imm         Imm           dium         0.00721         0.002         0.030         NE         J         Imm         Imm		Selenium	QN	0.0025	0.005	0.050	n		076307-009	SW846 6020
Imm         44.6         0.080         0.250         NE         Proposition           lum         0.00058         0.0004         0.001         0.002         J         P           lum         0.00623         0.00005         0.0000         0.030         J         P           lum-235         0.00046         0.00005         0.0000         0.030         J         P           dium         0.00721         0.002         0.030         NE         J         P		Silver	QN	0.0002	0.001	NE	ח		076307-009	SW846 6020
um         0.00058         0.0004         0.001         0.002         J         C           um         0.00623         0.00005         0.0000         0.030         J         C           um-236         0.000046         0.00007         0.030         J         C         C           dium         0.00721         0.002         0.030         NE         J         C         C		Sodium	44.6	0.080	0.250	N.			076307-009	SW846 6020
um         0.00623         0.00005         0.0002         0.030         J           um-235         0.000046         0.00001         0.00007         0.030         J           um-238         0.00619         0.00005         0.0002         0.030         NE         J           dium         0.00721         0.002         0.030         NE         J         NE		Thallium	0.00058	0.0004	0.001	0.002	ר		076307-009	SW846 6020
um-235         0.000046         0.00001         0.00007         0.030         J           um-238         0.00619         0.00005         0.0002         0.030         NE         J           dium         0.00721         0.002         0.030         NE         J         NE		Uranium	0.00623	0.00005	0.0002	0:030			076307-009	SW846 6020
um-238         0.00619         0.00005         0.0002         0.030         NE         J		Uranium-235	0.000046	0.00001	0.00007	0.030	٦		076307-009	SW846 6020
dium 0.00721 0.002 0.030 NE J		Uranium-238	0.00619	0.00005	0.0002	0.030			076307-009	SW846 6020
		Vanadium	0.00721	0.002	0.030	NE	ſ		076307-009	SW846 6020
0.0286 0.002 0.010 NE B		Zinc	0.0286	0.002	0.010	NE	В		076307-009	SW846 6020

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Aluminum	3.63	0.025	0.075	뮝		A2, J	076311-009	SW846 6020
	Antimony	QN	0.0005	0.002	900.0	ח		076311-009	SW846 6020
	Arsenic	0.00244	0.0015	0.005	0.010	В, Ј	В, Ј	076311-009	SW846 6020
	Barium	0.11	0.0005	0.002	2.0			076311-009	SW846 6020
	Beryllium	0.000208	0.0001	0.0005	0.004	٦		076311-009	SW846 6020
	Cadmium	0.000569	0.0001	0.001	0.005	٦		076311-009	SW846 6020
	Calcium	50.5	0.100	0.500	빙	В		076311-009	SW846 6020
	Chromium	0.133	0.001	0.003	0.10	В	J, P1	076311-009	SW846 6020
	Chromium (reanalysis)	0.169	0.001	0.003	0.10		7	076311-R09	SW846 6020
	Cobalt	0.00331	0.0001	0.001	뮐			076311-009	SW846 6020
	Copper	0.0136	0.0002	0.001	핑			076311-009	SW846 6020
	Iron	4.22	0.010	0.025	Ŋ			076311-009	SW846 6020
	Lead	0.00558	0.0005	0.002	빙		J, P1	076311-009	SW846 6020
MWL-IMW3 13-∆nr-06	Magnesium	14.5	0.005	0.015	Ŋ		٦	076311-009	SW846 6020
	Manganese	0.0771	0.001	0.005	Ŋ			076311-009	SW846 6020
	Mercury	ND	0.00005	0.0002	0.002	n		076311-009	SW846 7470
	Nickel	0.157	0.0005	0.002	Ŋ			076311-009	SW846 6020
	Potassium	4.36	0.080	0.300	NE			076311-009	SW846 6020
	Selenium	ND	0.0025	0.005	0.050	n		076311-009	SW846 6020
	Silver	ND	0.0002	0.001	NE	n		076311-009	SW846 6020
	Sodium	43.6	0.400	1.25	Ŋ			076311-009	SW846 6020
	Thallium	ND	0.0004	0.001	0.002	n		076311-009	SW846 6020
	Uranium	0.005	0.00005	0.0002	0:030			076311-009	SW846 6020
	Uranium-235	0.000035	0.00001	0.00007	0:030	Ŋ		076311-009	SW846 6020
	Uranium-238	0.00496	0.00005	0.0002	0:030			076311-009	SW846 6020
	Vanadium	ND	0.010	0.150	NE	Ω	A2, UJ	076311-009	SW846 6020
	Zinc	0.126	0.002	0.010	핑	В		076311-009	SW846 6020

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inum         0.045         0.005         0.015         NE         B         J, P1           orony         ND         0.0005         0.005         0.006         U         P1           nic         0.00813         0.0015         0.005         0.010         B         B, J           im         0.00825         0.0005         0.0005         0.004         U         B, J           nitum         ND         0.0001         0.0001         0.0004         U         B, J         B, J           mium         58 B         0.2001         1.000         NE         J         B, J         B, J           mium         0.00256         0.0011         0.0001         NE         J         B, J         B, J           set         0.00028         0.0001         0.001         NE         J         B, J         B, J           set         0.00016         0.0002         0.001         NE         J         B, J         B, J           set         0.00044         0.0005         0.0025         NE         J         B, J         B, J           set         0.00044         0.0005         0.0005         NE         NE         NE         N	Well ID	Analyte	Result <sup>a</sup> (mg/L)	(mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
Antitumony         ND         0,0005         0,0005         0,0006         U           Arsenic         0,00813         0,0015         0,0005         0,010         B         B,J           Bardium         0,00826         0,0005         0,0004         U         B,J         B           Beryllium         ND         0,0001         0,0004         U         B         B         B           Cadmium         ND         0,0001         0,0001         0,0004         U         B         B         B           Cadmium         ND         0,0001         0,0001         0,0004         U         B,J         B         B           Cadmium         0,00028         0,0001         0,0001         0,0001         B,J         B,J         B         B         J         B         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B         J         B		Aluminum	0.045	0.005	0.015	NE	В	J, P1	076313-009	SW846 6020
Arsenic         0.00813         0.0015         0.006         0.010         B         B, J           Barium         0.0925         0.0005         0.004         U         P           Beryllium         ND         0.0001         0.0005         0.004         U         P           Cadmium         NB         0.0001         0.0001         0.005         U         P         P           Calcium         58.8         0.200         0.001         B, J         B, J         B, J         B, J           Chromium         0.00265         0.0001         0.003         0.10         B, J         B, J         B, J           Cobalt         0.00026         0.0001         0.003         0.10         B, J         B, J         B, J           Iron         0.0016         0.0002         0.001         NE         B         B, J         B, J           Iron         0.00145         0.0005         0.002         NE         J         B, J         B, J           Manganese         0.00044         0.0005         0.002         NE         J         B, J         B, J           Marcury         ND         0.0005         0.0005         NE         NE		Antimony	QN	0.0005	0.002	900.0	n		076313-009	SW846 6020
Barlum         0.0925         0.0005         0.002         2.0         Peryllium         NID         0.0001         0.0005         0.004         U         Peryllium           Cadrilum         NID         0.0001         0.0001         0.0005         0.0004         U         P         P           Cadrilum         0.00265         0.0001         0.0003         0.10         NE         N         B.J         B.J         B.J         B.J         B.J         D         Colopset         0.0001         0.001         NE         N         B.J		Arsenic	0.00813	0.0015	0.005	0.010	В	В, Ј	076313-009	SW846 6020
Berylitum         ND         0.0001         0.0005         0.004         U           Cadmium         ND         0.0001         0.001         0.005         U           Calcium         \$8.8         0.200         1.00         NE         U           Calcium         \$8.8         0.200         1.00         NE         D           Chromium         0.000285         0.001         0.003         0.10         B, J         B, J           Copper         0.000786         0.0001         0.001         NE         B         B, J         B, J           Inn         0.000787         0.0005         0.001         NE         B         B, J         B, J           Magnesium         18.7         0.0005         0.002         NE         B, J         B, J           Magnesium         4.77         0.0005         0.002         NE         N         B8, JU           Nickel         0.000844         0.001         0.0002         NE         N         B8, JU           Nickel         0.002897         0.0005         0.002         N         B8, JU         B8, JU           Selenium         ND         0.0005         0.0005         N         B8,		Barium	0.0925	0.0005	0.002	2.0			076313-009	SW846 6020
Cadmium         ND         0.0001         0.001         0.005         U           Calcium         58.8         0.200         1.00         NE         D           Chromium         0.00265         0.001         0.003         0.10         B, J         B, J           Cobalt         0.00028         0.0001         0.001         NE         J         B, J           Inon         0.0016         0.0002         0.001         NE         B         B, J           Inon         0.0016         0.0002         0.001         NE         B         B, J           Inon         0.00145         0.0005         0.002         NE         B         B, J           Marganestum         18.7         0.0005         0.015         NE         N         J           Marganese         0.00044         0.001         0.002         NE         N         B3, U           Nickel         0.00297         0.0005         0.0002         NE         N         B3, U           Selenium         ND         0.0005         0.000         0.050         U         B3, U           Intalium         ND         0.0002         0.000         0.000         U <t< td=""><td></td><td>Beryllium</td><td>ND</td><td>0.0001</td><td>0.0005</td><td>0.004</td><td>n</td><td></td><td>076313-009</td><td>SW846 6020</td></t<>		Beryllium	ND	0.0001	0.0005	0.004	n		076313-009	SW846 6020
Calcium         58.8         0.200         1.00         NE         NE           Chromlum         0.00265         0.001         0.003         0.10         B, J         B, J           Cobalt         0.00028         0.0001         0.001         NE         J         B, J           Copper         0.00146         0.0002         0.001         NE         B         J           Iron         0.441         0.010         0.025         NE         B         B, J           Magnesium         18.7         0.005         0.005         NE         J         B, J           Manganese         0.00044         0.001         0.005         NE         J         B, J           Marcury         ND         0.0005         0.005         NE         NE         B3, JU           Nickel         0.00297         0.0005         0.000         NE         NE         NE           Selenium         ND         0.0005         0.000         NE         NE         NE           Sodium         39.5         0.0005         0.000         NE         NE         NE           Uranium-235         0.000041         0.00002         0.030         NE		Cadmium	ND	0.0001	0.001	0.005	n		076313-009	SW846 6020
Chromium         0.00265         0.001         0.003         0.10         B,J         B,J           Cobalt         0.00028         0.0001         0.001         NE         J         B,J           Inn         0.0016         0.0002         0.001         NE         B,J         B,J           Inn         0.441         0.010         0.025         NE         B,J         B,J           Inn         0.00145         0.0005         0.015         NE         J         B,J           Magnesium         18.7         0.005         0.015         NE         J         B,J           Manganese         0.00844         0.001         0.005         NE         J         B3, UJ           Meruny         ND         0.0005         0.002         NE         N         B3, UJ           Nickel         0.00297         0.0005         0.002         NE         B3, UJ         B3, UJ           Selenium         ND         0.0005         0.000         NE         N         B3, UJ           Silver         ND         0.0005         0.000         NE         N         D           Uranium         ND         0.0000         0.000         0.030 </td <td></td> <td>Calcium</td> <td>58.8</td> <td>0.200</td> <td>1.00</td> <td>빙</td> <td></td> <td></td> <td>076313-009</td> <td>SW846 6020</td>		Calcium	58.8	0.200	1.00	빙			076313-009	SW846 6020
Cobalt         0.0001         0.0001         NE         J           Copper         0.00116         0.0002         0.001         NE         B, J           Iron         0.441         0.010         0.025         NE         B, J           Lead         0.00145         0.0005         0.002         NE         J           Magnesium         18.7         0.005         0.015         NE         J           Mercury         ND         0.0005         0.005         NE         N         B3, UJ           Nickel         0.00297         0.0005         0.002         NE         N         B3, UJ           Nickel         0.00297         0.0005         0.002         NE         N         B3, UJ           Nickel         0.00297         0.0005         0.002         U         B3, UJ         N           Selenium         ND         0.0005         0.000         0.050         U         B3, UJ           Silver         ND         0.0002         0.000         U         N         I           Iralium         ND         0.0002         0.000         U         I         I           Uranium-235         0.000041         0.00		Chromium	0.00265	0.001	0.003	0.10	B, J		076313-009	SW846 6020
Copper         0.00116         0.0002         0.001         NE         B, J           Iron         0.441         0.010         0.025         NE         B, J           Lead         0.00145         0.0005         0.002         NE         J           Magnesium         18.7         0.0005         0.015         NE         J           Manganese         0.00844         0.001         0.005         0.002         NE         B3, UJ           Marcury         ND         0.000597         0.0005         0.002         NE         B3, UJ           Nickel         0.00297         0.0005         0.002         NE         B3, UJ           Nickel         0.00297         0.0005         0.000         NE         B3, UJ           Selenium         ND         0.0005         0.000         NE         N           Sodium         ND         0.0002         0.000         N         N           Sodium         ND         0.0004         0.0004         0.0004         0.000         N           Uranium-235         0.000691         0.00002         0.030         J         N           Vanadium         0.00189         0.0000         0.030		Cobalt	0.00028	0.0001	0.001	NE	ſ		076313-009	SW846 6020
Iron         0.441         0.010         0.025         NE         N           Lead         0.00145         0.0005         0.002         NE         J         N           Magnesium         18.7         0.005         0.015         NE         J         N		Copper	0.00116	0.0002	0.001	Ŋ	В		076313-009	SW846 6020
Lead         0.00145         0.0005         0.002         NE         J           Magnesium         18.7         0.005         0.015         NE         P           Manganese         0.00844         0.001         0.005         NE         N         B3, UJ           Mercury         ND         0.0005         0.0002         0.002         U         B3, UJ           Nickel         0.00297         0.0005         0.002         0.002         N         B3, UJ           Nickel         ND         0.0005         0.005         N         N         B3, UJ         B3, UJ           Selenium         ND         0.0025         0.005         N         D         D         D           Selenium         ND         0.0002         0.005         0.05         U         D		Iron	0.441	0.010	0.025	빙			076313-009	SW846 6020
Magnesium         18.7         0.005         0.015         NE         NE           Manganese         0.00844         0.001         0.005         NE         N           Mercury         ND         0.0005         0.0002         0.002         NE         N           Nickel         0.00297         0.0005         0.002         NE         N         B3, UJ           Potassium         4.77         0.080         0.005         U         B3, UJ         N           Selenium         ND         0.0025         0.005         U         D         N		Lead	0.00145	0.0005	0.002	빙	7		076313-009	SW846 6020
Manganese         0.00844         0.001         0.005         NE         Permitted           Mercury         ND         0.00005         0.0002         0.002         U         B3, UJ           Nickel         0.00297         0.0005         0.002         NE         NE         NE           Potassium         4.77         0.080         0.300         NE         U         B3, UJ         NE           Selenium         ND         0.0002         0.005         0.050         U         D         NE	MWL-MW4	Magnesium	18.7	0.005	0.015	NE			076313-009	SW846 6020
ury         ND         0.00005         0.0002         U         B3, UJ           sslum         4.77         0.080         0.002         NE         N           nium         ND         0.0025         0.005         0.050         U           r         ND         0.0002         0.001         NE         U           r         ND         0.0002         0.001         NE         U           r         ND         0.0004         0.001         NE         U           r         ND         0.0004         0.0002         0.000         U           r         ND         0.00005         0.0000         U         0.000           r         0.000595         0.00005         0.0000         J         N           r         0.000591         0.00002         0.030         J         B, J           r         0.01089         0.0002         0.030         N         B, J         B, J	06-Apr-06	Manganese	0.00844	0.001	0.005	NE			076313-009	SW846 6020
ell         0.00297         0.0005         0.0300         NE		Mercury	ND	0.00005	0.0002	0.002	n	B3, UJ	076313-009	SW846 7470
ssium         4.77         0.080         0.300         NE         P           nium         ND         0.0025         0.005         U         P           r         ND         0.0002         0.001         NE         U         P           lum         ND         0.0004         0.001         0.002         U         P         P           lum         0.00595         0.00005         0.0002         0.030         J         P         P           lum-235         0.000641         0.00005         0.00007         0.030         J         P         P           dium         0.0189         0.0002         0.030         NE         B, J         B         P		Nickel	0.00297	0.0005	0.002	빙			076313-009	SW846 6020
rium         ND         0.0025         0.005         0.050         U         P           Imm         39.5         0.080         0.250         NE         U         P           Ium         ND         0.0004         0.001         0.002         U         P           Ium         0.00595         0.00005         0.0000         0.030         J         P           Ium-235         0.00591         0.00005         0.0000         0.030         J         P           Ium-238         0.00591         0.0002         0.030         NE         B, J         B, J           Ium         0.0189         0.002         0.030         NE         B, J         B, J		Potassium	4.77	0.080	0.300	NE			076313-009	SW846 6020
r         ND         0.0002         0.001         NE         U         NE         NE <t< td=""><td></td><td>Selenium</td><td>QN</td><td>0.0025</td><td>0.005</td><td>0.050</td><td>ר</td><td></td><td>076313-009</td><td>SW846 6020</td></t<>		Selenium	QN	0.0025	0.005	0.050	ר		076313-009	SW846 6020
um         39.5         0.080         0.250         NE         NE           lum         ND         0.0004         0.001         0.002         U         P           lum         0.00595         0.00005         0.0002         0.030         J         P           lum-235         0.000591         0.00005         0.0002         0.030         J         P           dium         0.0189         0.0002         0.030         NE         B, J         B, J		Silver	ND	0.0002	0.001	NE	n		076313-009	SW846 6020
lum         ND         0.0004         0.001         0.002         U           lum         0.00595         0.00005         0.0002         0.030         J           lum-235         0.000041         0.00007         0.0030         J         R           lum-238         0.00591         0.0005         0.0002         0.030         NE         B, J         B, J           dium         0.0189         0.002         0.030         NE         B, J         B, J         B, J		Sodium	39.5	0.080	0.250	NE			076313-009	SW846 6020
lum         0.00595         0.00005         0.00007         0.030         J           lum-235         0.000041         0.00001         0.00007         0.030         J           lum-238         0.00591         0.00005         0.0002         0.030         NE           dium         0.0189         0.002         0.030         NE         B, J		Thallium	QN	0.0004	0.001	0.002	n		076313-009	SW846 6020
ium-235         0.000041         0.00001         0.00007         0.030         J           ium-238         0.00591         0.00005         0.0002         0.030         B, J         B, J           dium         0.0189         0.002         0.030         NE         B, J         B, J		Uranium	0.00595	0.00005	0.0002	0.030			076313-009	SW846 6020
ium-238         0.00591         0.00005         0.0002         0.030         B, J         B, J           dium         0.0189         0.002         0.030         NE         B, J         B, J		Uranium-235	0.000041	0.00001	0.00007	0.030	٦		076313-009	SW846 6020
dium 0.0189 0.002 0.030 NE B, J B, J		Uranium-238	0.00591	0.00005	0.0002	0.030			076313-009	SW846 6020
0000 0000 NE		Vanadium	0.0189	0.002	0.030	핑	В, Ј	В, Ј	076313-009	SW846 6020
0.002		Zinc	0.0197	0.002	0.010	NE			076313-009	SW846 6020

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Influent         0.0244         0.005         0.015         NE         0.024         0.005         0.005         B.U         0.05317-009           Inich         ND         0.0005         0.005         0.006         B.U         0.078317-009           Inich         ND         0.0005         0.005         2.0         0.0         0.05317-009           Inich         ND         0.0001         0.0005         0.004         U         0.78317-009           Inich         ND         0.0001         0.001         0.001         0.004         U         0.78317-009           Inich         ND         0.0001         0.001         0.004         U         0.78317-009           Inich         ND         0.0001         0.001         0.003         0.10         J         B2,J         0.78317-009           Inich         0.00109         0.0001         0.001         NE         J         B2,J         0.78317-009           Inich         0.00109         0.001         0.002         NE         J         B2,J         0.78317-009           Inich         0.00109         0.001         0.002         NE         J         B2,J         0.78317-009           Inich <th>WellID</th> <th>Analyte</th> <th>Result<sup>a</sup> (mg/L)</th> <th>MDL<sup>b</sup> (mg/L)</th> <th>PQL° (mg/L)</th> <th>MCL<sup>d</sup> (mg/L)</th> <th>Laboratory Qualifier<sup>e</sup></th> <th>Validation Qualifier<sup>f</sup></th> <th>Sample No.</th> <th>Analytical Method<sup>9</sup></th>	WellID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
Antimony         ND         0,0005         0,0005         0,000         B, U         076317-009           Antimony         ND         0,00015         0,0005         0,010         U         076317-009           Beryllium         0,126         0,0005         0,0004         U         0,00317-009         0,0031           Beryllium         ND         0,0001         0,0005         0,004         U         0,76317-009           Cadiclum         ND         0,0001         0,0001         0,0005         0,004         U         0,76317-009           Cadiclum         ND         0,0001         0,0001         0,0001         0,0005         0,00         U         0,76317-009           Cadiclum         ND         0,0001         0,0001         0,0001         0,00	MWL-MW5	Aluminum	0.0244	0.005	0.015	NE			076317-009	SW846 6020
nic         ND         0,0005         0,0005         0,010         ND         0,076317-009           lilum         0,126         0,0005         0,0005         2,0         N         0,76317-009           nilum         ND         0,0001         0,0005         0,004         0,0005         U         0,76317-009           nilum         ND         0,0001         0,0001         0,0001         0,0001         0,0005         U         0,76317-009           nilum         0,000266         0,0001         0,0002         0,0001         0,0002         0,0001         0,0001         0,0001         0,0001         0,0001         0,0002         0,0002         0,0002         0,0002         0,0002         0,0002         0,0002         0,0002         0,0002         0,0002         0,0002         0,0002         0,0002         0,0002         0,0002         0,0002         0,0002         0,0002	14-Apr-06	Antimony	ND	0.0005	0.002	0.006	B, U		076317-009	SW846 6020
time         0.126         0.0005         0.004         U         076317-009           litum         ND         0.0001         0.0005         0.004         U         076317-009           nulm         ND         0.0001         0.001         0.005         U         D         076317-009           nulm         95.2         0.100         0.500         NE         B         D         076317-009           milum         0.001039         0.0101         0.003         0.101         0.003         0.10         0.06317-009           milum         0.000266         0.0001         0.003         0.01         NE         J         B2, J         076317-009           net         0.000266         0.0002         0.001         NE         J         B2, J         076317-009           net         0.000266         0.0002         0.001         NE         J         B2, J         076317-009           net         0.411         0.010         0.025         NE         J         B2, J         076317-009           nul         ND         0.0005         0.015         NE         J         B3, UJ         076317-009           nul         ND         0.0005 <td></td> <td>Arsenic</td> <td>ND</td> <td>0.0015</td> <td>0.005</td> <td>0.010</td> <td>n</td> <td></td> <td>076317-009</td> <td>SW846 6020</td>		Arsenic	ND	0.0015	0.005	0.010	n		076317-009	SW846 6020
Illum         ND         0,0001         0,0005         0,0004         U         076317-009           nilum         ND         0,0001         0,0001         0,0005         U         0,05317-009           um         95.2         0,100         0,500         NE         B         0,05317-009           milum         0,000/266         0,0001         0,0001         NE         J         B2, J         0,05317-009           set         0,000/266         0,0002         0,0001         NE         J         B2, J         0,05317-009           set         0,000266         0,0002         0,0001         NE         J         B2, J         0,76317-009           set         0,000299         0,0002         0,0002         NE         J         B2, J         0,76317-009           set         0,00029         0,0002         NE         NE         J         0,76317-009           usy         ND         0,0005         0,005         NE         J         0,76317-009           usy         ND         0,0005         0,0002         0,0002         NE         J         0,76317-009           usy         ND         0,0005         0,0005         0,0005		Barium	0.126	0.0005	0.002	2.0			076317-009	SW846 6020
nium         ND         0.0001         0.001         NE         B         076317-009           um         95.2         0.100         0.500         NE         B         0.76317-009           mium         0.00109         0.001         0.003         0.10         J         B2, J         0.76317-009           nit         0.000266         0.0001         0.001         NE         J         B2, J         0.76317-009           ner         0.000309         0.0001         0.001         NE         J         B2, J         0.76317-009           ner         0.000309         0.0002         0.001         NE         J         B2, J         0.76317-009           nersium         ND         0.0005         0.002         NE         J         0.76317-009           ganese         0.0132         0.001         NE         N         D         0.76317-009           ganese         0.0132         0.001         NE         J         B3, UJ         0.76317-009           ganese         0.0132         0.001         NE         J         B3, UJ         0.76317-009           salum         ND         0.0005         0.0005         0.005         NE         J<		Beryllium	ND	0.0001	0.0005	0.004	n		076317-009	SW846 6020
unm         95.2         0.100         0.500         NE         B         Q76317-009           milum         0.00109         0.0011         0.003         0.10         J         B2, J         076317-009           net         0.000266         0.0001         0.001         NE         J         B2, J         076317-009           net         0.000269         0.0002         0.001         NE         J         B2, J         076317-009           net         0.00099         0.0002         0.001         NE         J         B2, J         076317-009           nesium         0.0417         0.0005         0.002         NE         J         076317-009           nesium         31.6         0.0005         0.001         NE         J         076317-009           nuty         ND         0.0005         0.002         NE         J         076317-009           salum         5.71         0.080         0.002         0.002         U         B3, UJ         076317-009           salum         ND         0.0005         0.002         NE         J         076317-009           num         ND         0.0005         0.005         NE         J		Cadmium	ND	0.0001	0.001	0.005	n		076317-009	SW846 6020
mitum         0.00109         0.001         0.003         0.10         J         B2, J         076317-009           set         0.000266         0.0001         0.001         NE         J         B2, J         076317-009           set         0.000269         0.0002         0.001         NE         J         B2, J         076317-009           set         0.00099         0.0002         0.001         NE         J         D         076317-009           setum         0.010         0.0005         0.002         NE         D         O         076317-009           setum         3.1.6         0.005         0.015         NE         D         076317-009           usy         ND         0.0005         0.015         NE         D         076317-009           setum         3.1.6         0.001         0.0005         0.002         D         0.05317-009           setum         AD         0.0005         0.0002         0.002         D         D         0.06317-009           setum         AD         0.0005         0.0005         0.002         D         D         0.06317-009           inm         ND         0.0005         0.0005		Calcium	95.2	0.100	0.500	NE	В		076317-009	SW846 6020
lift         0.000266         0.0001         0.001         NE         J         B2, J         076317-009           ber         0.000909         0.0002         0.001         NE         J         B2, J         076317-009           fer         0.000909         0.0002         0.001         NE         J         C05317-009           festum         ND         0.0005         0.002         NE         D         076317-009           ganese         0.0132         0.001         0.005         0.015         NE         D         076317-009           ury         ND         0.0005         0.015         NE         NE         D         076317-009           silum         0.0132         0.001         0.0015         0.001         NE         NE         D         076317-009           silum         0.0132         0.0005         0.002         0.002         0.002         NE         D         076317-009           silum         ND         0.0005         0.005         0.005         0.005         NE         D         076317-009           inm         ND         0.0005         0.005         0.005         NE         D         076317-009		Chromium	0.00109	0.001	0.003	0.10	ſ	B2, J	076317-009	SW846 6020
oer         0.000909         0.0002         0.001         NE         J         O76317-009           resium         0.411         0.010         0.025         NE         U         076317-009           resium         ND         0.0005         0.005         0.015         NE         U         076317-009           ganese         0.0132         0.001         0.005         0.002         NE         U         076317-009           uury         ND         0.0005         0.0002         0.002         U         076317-009         076317-009           uury         ND         0.0005         0.0002         0.002         U         076317-009         076317-009           ssium         5.71         0.080         0.0002         NE         J         076317-009         076317-009           ssium         5.71         0.080         0.0002         0.050         U         076317-009         076317-009           rium         ND         0.0002         0.000         0.050         U         076317-009         076317-009           rium         ND         0.0004         0.000         0.000         0.000         0.000         0.000         0.000         0.000 <td< td=""><td></td><td>Cobalt</td><td>0.000266</td><td>0.0001</td><td>0.001</td><td>NE</td><td>ŋ</td><td>B2, J</td><td>076317-009</td><td>SW846 6020</td></td<>		Cobalt	0.000266	0.0001	0.001	NE	ŋ	B2, J	076317-009	SW846 6020
ND   0.0005   0.0025   NE   NE   0.06317-009   NE   NE   NE   NE   NE   0.06317-009   NE   NE   NE   NE   NE   NE   NE   N		Copper	606000.0	0.0002	0.001	NE	ſ		076317-009	SW846 6020
Individusity         ND         0.0005         0.002         NE         U         0.06317-009           Janese         0.0132         0.001         0.005         NE         NE         0.06317-009           Janese         0.0132         0.001         0.0005         NE         N         0.06317-009           Jury         ND         0.0005         0.0002         0.002         U         B3, UJ         0.06317-009           Ssium         5.71         0.080         0.0005         0.050         U         B3, UJ         0.06317-009           Inium         ND         0.0005         0.005         U         B3, UJ         0.06317-009           Inium         ND         0.0005         0.005         U         B3, UJ         0.06317-009           Inium         ND         0.0002         0.001         NE         U         0.06317-009           Inium         0.0099         0.0004         0.0002         0.030         U         0.06317-009           Inium         0.0099         0.00004         0.00002         0.030         J         0.06317-009           Inium         0.00059         0.00002         0.030         NE         J         0.06317-009		Iron	0.411	0.010	0.025	NE			076317-009	SW846 6020
nestimm         31.6         0.005         0.015         NE         O76317-009           ganese         0.0132         0.001         0.005         NE         0         076317-009           uury         ND         0.0005         0.0002         0.002         U         B3, UJ         076317-009           el         0.00197         0.0005         0.0002         NE         J         076317-009           ssium         5.71         0.080         0.005         0.050         U         076317-009           nium         ND         0.0002         0.001         NE         U         076317-009           um         71.8         0.400         1.25         NE         U         076317-009           um         71.8         0.400         1.25         NE         U         076317-009           um         ND         0.0004         0.001         0.002         U         076317-009           um         0.00099         0.00005         0.0000         0.030         J         076317-009           um-         0.000699         0.0000         0.030         J         0.030         O           0.0007         0.0002         0.030		Lead	ND	0.0005	0.002	NE	n		076317-009	SW846 6020
ganese         0.0132         0.001         0.005         NE         NE         0.06317-009           ury         ND         0.00005         0.0002         0.002         U         B3, UJ         076317-009           ssium         6.71         0.0005         0.002         NE         J         076317-009           ssium         6.71         0.080         0.005         U         0.05317-009         0.05317-009           r         ND         0.0025         0.005         0.050         U         0.06317-009         0.06317-009           r         ND         0.0002         0.001         NE         U         0.06317-009         0.06317-009           ium         71.8         0.400         1.25         NE         U         0.06317-009         0.06317-009           ium         0.0099         0.0004         0.001         0.002         U         0.06317-009         0.06317-009           ium-236         0.000064         0.00007         0.030         J         0.06317-009         0.06317-009           ium-238         0.000659         0.0030         NE         J         0.06317-009           ond         0.0027         0.030         J         0.06317		Magnesium	31.6	0.005	0.015	NE			076317-009	SW846 6020
Linty         ND         0.00005         0.0002         0.002         U         B3, UJ         076317-009           Ssium         0.00197         0.0005         0.0002         NE         J         0.05317-009         0.05317-009           Ssium         5.71         0.080         0.300         NE         J         0.06317-009         0.06317-009           Inium         ND         0.00025         0.0001         NE         U         0.06317-009         0.06317-009           Inium         ND         0.0004         0.001         NE         U         0.06317-009         0.06317-009           Inium         0.0099         0.00004         0.0001         0.0002         0.030         U         0.06317-009         0.06317-009           Ium         0.00064         0.00007         0.030         J         0.06317-009         0.06317-009           Ium-238         0.000689         0.00007         0.030         J         D         0.05317-009           Ium-238         0.00059         0.0000         0.030         J         D         0.05317-009           Ium-238         0.00059         0.0000         0.030         J         D         0.05317-009           Ium-2		Manganese	0.0132	0.001	0.005	NE			076317-009	SW846 6020
el         0.00197         0.0005         0.002         NE         J         076317-009           ssium         5.71         0.080         0.300         NE         D         076317-009           r         ND         0.0025         0.005         0.050         U         076317-009           r         ND         0.0002         0.001         NE         U         076317-009           ium         ND         0.0004         0.001         0.002         U         076317-009           ium         0.0099         0.00005         0.00007         0.030         J         076317-009           ium-235         0.000683         0.00005         0.0000         0.030         J         R         R         R         R           dium         0.0059         0.0002         0.030         NE         J         R         076317-009		Mercury	ND	0.00005	0.0002	0.002	n	B3, UJ	076317-009	SW846 7470
ssium         5.71         0.080         0.300         NE         0.05317-009           nium         ND         0.0025         0.005         0.050         U         0.06317-009           r         ND         0.0002         0.001         NE         U         0.06317-009           lum         71.8         0.400         1.25         NE         U         0.06317-009           lum         ND         0.0004         0.001         0.002         U         0.05317-009           lum-235         0.00064         0.00007         0.030         J         0.05317-009           lum-238         0.000659         0.00007         0.030         J         0.05317-009           lum-238         0.00059         0.0002         0.030         J         0.05317-009		Nickel	0.00197	0.0005	0.002	NE	ſ		076317-009	SW846 6020
rium         ND         0.0025         0.005         0.050         U         076317-009           r         ND         0.0002         0.001         NE         U         076317-009           um         71.8         0.400         1.25         NE         U         076317-009           ium         ND         0.0004         0.001         0.002         U         076317-009           ium-235         0.00064         0.00007         0.0000         0.030         J         076317-009           ium-238         0.000659         0.0002         0.030         J         076317-009           dium         0.00659         0.0002         0.030         J         076317-009		Potassium	5.71	0.080	0.300	NE			076317-009	SW846 6020
r         ND         0.0002         0.001         NE         U         076317-009           um         71.8         0.400         1.25         NE         N         0.06317-009           ium         ND         0.0004         0.001         0.002         U         076317-009           ium         0.0099         0.00005         0.00007         0.030         J         076317-009           ium-235         0.00064         0.00007         0.0000         0.030         J         076317-009           ium-238         0.000659         0.0002         0.030         NE         J         R R 2 I         076317-009           dium         0.0057         0.030         NE         J         R R 2 I         076317-009		Selenium	ND	0.0025	0.005	0.050	n		076317-009	SW846 6020
Lim         71.8         0.400         1.25         NE         NE         076317-009           ium         ND         0.0004         0.001         0.002         U         076317-009           ium         0.0099         0.00005         0.00007         0.030         J         076317-009           ium-236         0.000683         0.00005         0.0002         0.030         J         076317-009           dium         0.00659         0.002         0.030         NE         J         R 1         R 2 1         076317-009		Silver	ND	0.0002	0.001	NE	n		076317-009	SW846 6020
lum         ND         0.0004         0.001         0.002         U         076317-009           lum-235         0.00099         0.00005         0.00007         0.030         J         076317-009           lum-236         0.00064         0.00007         0.0000         J         076317-009           lum-238         0.00659         0.0002         0.030         NE         J         R 1         R 2 1         076317-009		Sodium	71.8	0.400	1.25	NE			076317-009	SW846 6020
lum         0.0099         0.00005         0.00007         0.030         J         076317-009           lum-235         0.000064         0.00001         0.00007         0.030         J         076317-009           lum-238         0.000659         0.0002         0.030         NE         J         076317-009           dium         0.0077         0.002         0.030         NE         J         076317-009		Thallium	ND	0.0004	0.001	0.002	n		076317-009	SW846 6020
ium-235         0.000064         0.00001         0.00007         0.030         J         076317-009           ium-238         0.00983         0.00005         0.0002         0.030         N         076317-009           dium         0.00659         0.002         0.030         N         N         076317-009		Uranium	6600.0	0.00005	0.0002	0:030			076317-009	SW846 6020
ium-238         0.00983         0.00005         0.0002         0.030         NE         J         PR217-009           dium         0.0059         0.030         NE         PR21         0.76317-009		Uranium-235	0.000064	0.00001	0.00007	0:030	ſ		076317-009	SW846 6020
dium 0.00659 0.002 0.030 NE J R R 7 076317-009		Uranium-238	0.00983	0.00005	0.0002	0:030			076317-009	SW846 6020
00077 0000 NE R R R B B D 1 076317-000		Vanadium	0.00659	0.002	0.030	NE	ſ		076317-009	SW846 6020
0.0077 0.002 0.010 NE B, 3 B, BZ, 3 0.00317-003		Zinc	0.0077	0.002	0.010	NE	В, Л	B, B2, J	076317-009	SW846 6020

**APPENDICES** 

Well ID	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL⁴ (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
MWL-MW6	Aluminum	QN	0.005	0.015	Ä	)		076319-009	SW846 6020
17-Apr-06	Antimony	ND	0.0005	0.002	0.006	B, U		076319-009	SW846 6020
	Arsenic	QN	0.0015	0.005	0.010	n		076319-009	SW846 6020
	Barium	0.109	0.0005	0.002	2.0			076319-009	SW846 6020
	Beryllium	QN	0.0001	0.0005	0.004	n		076319-009	SW846 6020
	Cadmium	QN	0.0001	0.001	0.005	Э		076319-009	SW846 6020
	Calcium	9.68	0.100	0.500	N N	В		076319-009	SW846 6020
	Chromium	0.00123	0.001	0.003	0.10	7		076319-009	SW846 6020
	Cobalt	0.000225	0.0001	0.001	N N	٦		076319-009	SW846 6020
	Copper	0.000939	0.0002	0.001	JN	ſ		076319-009	SW846 6020
	Iron	0.316	0.010	0.025	NE NE			076319-009	SW846 6020
	Lead	ND	0.0005	0.002	BN	n		076319-009	SW846 6020
	Magnesium	28.7	0.005	0.015	JN			076319-009	SW846 6020
_	Manganese	ND	0.001	0.005	JN	n		076319-009	SW846 6020
_	Mercury	ND	0.00005	0.0002	0.002	n	B3, UJ	076319-009	SW846 7470
_	Nickel	0.00162	0.0005	0.002	NE	ſ		076319-009	SW846 6020
	Potassium	5.61	0.080	00:300	NE			076319-009	SW846 6020
	Selenium	QN	0.0025	0.005	0:020	n		076319-009	SW846 6020
	Silver	ND	0.0002	0.001	JN	n		076319-009	SW846 6020
	Sodium	62.9	0.400	1.25	NE			076319-009	SW846 6020
	Thallium	ND	0.0004	0.001	0.002	n		076319-009	SW846 6020
	Uranium	0.0101	0.00005	0.0002	0:030			076319-009	SW846 6020
	Uranium-235	0.000066	0.00001	0.00007	0.030	ſ		076319-009	SW846 6020
	Uranium-238	0.0101	0.00005	0.0002	0:030			076319-009	SW846 6020
	Vanadium	0.0073	0.002	0:030	NE	l,		076319-009	SW846 6020
	Zinc	0.00267	0.002	0.010	N N	В, Л	В, Ј	076319-009	SW846 6020

Summary of Tritium, Gross Alpha, Gross Beta, and Gamma Spectroscopy Results Mixed Waste Landfill Groundwater Monitoring Table MWL C-6

Tritium Gross Alpha Gross Beta MWL-BW1 18-Apr-06 Cesium-137 Cobalt-60 Potassium-40 Tritium Gross Beta MWL-MW1 Americium-241 Cesium-137 Cobalt-60 Potassium-40 Tritium Gross Alpha	7.40 ± 106 2.13 ± 0.547 3.11 ± 0.963 1 -3.36 ± 3.39 -2.39 ± 2.72 -0.537 ± 3.03 65.4 ± 30.9 -77.6 ± 128 8.38 ± 1.40 6.07 ± 2.02 1 -3.4 ± 10.7 0.00848 ± 2.07 0.790 ± 3.34 156 ± 30.8	184 0.694 1.63 5.83 4.49		(PCI/L)				
		0.694 1.63 5.83 4.49	88.5	IJ.	ס		076300-036	EPA 906.0 M
		1.63 5.83 4.49	0.331	15			076300-034	EPA 900.0
		5.83	0.775	4mrem/yr			076300-034	EPA 900.0
		4.49	2.85	NE	n		076300-033	EPA 901.1
			2.14	Ŋ	n		076300-033	EPA 901.1
		5.35	2.50	NE	n		076300-033	EPA 901.1
		65.4	29.8	NE	n	۲N	076300-033	EPA 901.1
		230	111	Ŋ	n		076304-036	EPA 906.0 M
		0.982	0.427	15			076304-034	EPA 900.0
		3.30	1.60	4mrem/yr			076304-034	EPA 900.0
		17.4	8.52	빙	D		076304-033	EPA 901.1
Cobalt-60 Potassium-40 Tritium Gross Alpha		3.65	1.75	빙	D		076304-033	EPA 901.1
Potassium-40 Tritium Gross Alpha		4.16	1.96	Ŋ	n		076304-033	EPA 901.1
Tritium Gross Alpha	30.00.105	156	31.9	Ŋ	n	ſN	076304-033	EPA 901.1
Gross Alpha	39.Z I 133	232	112	NE	n		076305-036	EPA 906.0 M
4000000	7.91 ± 1.52	1.11	0.490	15			076305-034	EPA 900.0
MANA MANA (C. C. C	$6.09 \pm 1.60$	2.40	1.17	4mrem/yr			076305-034	EPA 900.0
INIVAL-INIVI (Duplicate) Americium-241	1 -9.39 ± 15.5	19.1	9.30	NE	n		076305-033	EPA 901.1
	1.88 ± 1.74	3.17	1.52	NE	n		076305-033	EPA 901.1
Cobalt-60	2.51 ± 2.33	3.88	1.83	NE	n		076305-033	EPA 901.1
Potassium-40	38.3 ± 52.9	31.0	14.4	NE	×	R	076305-033	EPA 901.1
Tritium	-35.5 ± 107	190	91.0	Ŋ	n		076307-036	EPA 906.0 M
Gross Alpha	11.5 ± 1.78	1.52	0.694	15			076307-034	EPA 900.0
Gross Beta	10.8 ± 2.11	3.07	1.48	4mrem/yr			076307-034	EPA 900.0
NIVVL-IVIVVZ 10. Arr-06	1 19.9 ± 16.7	19.9	8.83	NE	U, X		076307-033	EPA 901.1
Cesium-137	-1.33 ± 1.72	2.87	1.36	NE	n		076307-033	EPA 901.1
Cobalt-60	-0.26 ± 1.86	3.28	1.53	NE	n		076307-033	EPA 901.1
Potassium-40	64.6 ± 23.8	64.6	23.2	NE	D	m	076307-033	EPA 901.1
Tritium	144 ± 115	189	8.06	NE	n		076311-036	EPA 906.0 M
Gross Alpha	14.7 ± 2.23	1.75	0.818	15			076311-034	EPA 900.0
Gross Beta	$16.1 \pm 2.65$	3.52	1.68	4mrem/yr			076311-034	EPA 900.0
Marricium-241	1 -1.16 ± 8.30	13.6	6:29	NE	D		076311-033	EPA 901.1
	0.226 ± 1.70	2.99	1.42	Ŋ	D		076311-033	EPA 901.1
Cobalt-60	1.79 ± 2.33	3.44	1.61	NE	D		076311-033	EPA 901.1
Potassium-40	14.7 ± 52.9	28.8	13.3	NE	n		076311-033	EPA 901.1

Summary of Tritium, Gross Alpha, Gross Beta, and Gamma Spectroscopy Results Mixed Waste Landfill Groundwater Monitoring Table MWL C-6

Well ID	Analyte	Activity <sup>a</sup> (pCi/L)	MDA <sup>n</sup> (pCi/L)	Critical Level <sup>b</sup>	MCL⁴ (pCi/L)	Laboratory Qualifier*	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Tritium	38.9 ± 130	224	( <b>pCi/L</b> ) 108	쀨	ס		076313-036	EPA 906.0 M
	Gross Alpha	7.75 ± 2.03	2.60	1.24	15			076313-034	EPA 900.0
	Gross Beta	9.47 ± 2.15	3.30	1.60	4mrem/yr			076313-034	EPA 900.0
MWL-MW4 06-Apr-06	Americium-241	-0.318 ± 10.8	12.3	6.16	빌	)		076313-033	EPA 901.1
	Cesium-137	1.63 ± 2.45	2.80	1.40	핑	ח		076313-033	EPA 901.1
	Cobalt-60	0.663 ± 1.88	3.21	1.61	빌	)		076313-033	EPA 901.1
	Potassium-40	-42.3 ± 35.6	37.6	18.8	빙	n		076313-033	EPA 901.1
	Tritium	-63.9 ± 106	191	91.6	핑	ח		076317-036	EPA 906.0 M
	Gross Alpha	8.59 ± 4.29	6.17	2.58	15			076317-034	EPA 900.0
	Gross Beta	10.3 ± 3.42	5.94	2.81	4mrem/yr		J, P1	076317-034	EPA 900.0
MWL-MW5 14-Apr-06	Americium-241	-49.5 ± 12.8	16.9	8.27	Ŋ	n		076317-033	EPA 901.1
	Cesium-137	1.18 ± 1.97	3.60	1.72	Ŋ	n		076317-033	EPA 901.1
	Cobalt-60	1.14 ± 1.95	3.64	1.69	Ŋ	n		076317-033	EPA 901.1
	Potassium-40	92.8 ± 26.6	92.9	27.1	Ŋ	n		076317-033	EPA 901.1
	Tritium	78.9 ± 113	190	91.3	Ŋ	n		076319-036	EPA 906.0 M
	Gross Alpha	10.3 ± 1.65	0.807	0.343	15			076319-034	EPA 900.0
	Gross Beta	12.8 ± 3.45	5.50	2.59	4mrem/yr		J, P1	076319-034	EPA 900.0
MWL-MW6 17-Apr-06	Americium-241	1.83 ± 11.1	19.8	9.67	NE	n		076319-033	EPA 901.1
	Cesium-137	1.30 ± 1.78	3.17	1.52	NE	n		076319-033	EPA 901.1
	Cobalt-60	0.107 ± 1.93	3.42	1.60	NE	n		076319-033	EPA 901.1
	Potassium-40	70.1 ± 40.3	32.1	15.0	Ŋ			076319-033	EPA 901.1
Refer to footnotes on page 23.									

### Table MWL C-7 Summary of Field Water Quality Measurements<sup>i</sup> Mixed Waste Landfill Groundwater Monitoring

## Fiscal Year 2006

Well ID	Sample Date	Temperature (°C)	Specific Conductivity (µmho/cm)	Oxidation Reduction Potential (mV)	Hd	Turbidity (NTU)	Dissolved Oxygen (% Sat)	Dissolved Oxygen (mg/L)
MWL-BW1	18-Apr-06	14.28	490	42.8	7.24	3.94	84.3	8.36
MWL-MW1	12-Apr-06	18.66	590	75.7	7.64	14.0	9.69	6.52
MWL-MW2	10-Apr-06	20.43	592	68.3	7.78	3.25	29.8	2.68
MWL-MW3	13-Apr-06	16.91	485	83.6	7.56	76.2	91.3	8.89
MWL-MW4	06-Apr-06	19.51	626	290.5	7.39	69'0	13.2	1.21
MWL-MW5	14-Apr-06	20.78	914	32.2	7.14	1.32	32.3	2.80
MWL-MW6	17-Apr-06	21.30	849	-13.9	7.25	0.39	32.3	2.96
Refer to footnotes on page 23.								

**APPENDICES** 

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### Footnotes for Mixed Waste Landfill Groundwater Monitoring

### <sup>a</sup>Result and/or Activity

- Values in bold exceed the established MCL.
- ND = not detected (at method detection limit).
- Activities of zero or less are considered to be not detected.
- μg/L = micrograms per liter
- mg/L = milligrams per liter
- pCi/L = picocuries per liter

### <sup>b</sup>MDL or Critical level

Method detection limit. The minimum concentration or activity that can be measured and reported with 99% confidence that the analyte is greater than zero, analyte is matrix specific.

- N/A = not applicable

### °PQL

Practical quantitation limit. The lowest concentration of analytes in a sample that can be reliably determined within specified limits of precision and accuracy by that indicated method under routine laboratory operating conditions.

- N/A = not applicable

### **dMCL**

MCL = Maximum contaminant level. Established by the U.S. Environmental Protection Agency Primary Water Regulations (40 CFR 141.11(b)), and subsequent amendments or the New Mexico Environmental Improvement Board in Title 20, Chapter 7, Part 1 of the New Mexico Administrative Code (20 NMAC 7.1). NE = not established.

The following are the MCLs for gross alpha particles and beta particles in community water systems: 15 pCi/L = Gross alpha particle activity (including radium-226 but excluding radion and total uranium). 4 mrem/yr = any combination of beta and/or gamma emitting radionuclides (as dose rate).

### <sup>e</sup>Lab Qualifier

- B = Analyte is detected in associated laboratory method blank.
- J = Amount detected is below the practical quantitation limit (PQL).
- U = Analyte is absent or below the method detection limit.
- X = Data rejected due to low abundance.
- None = No qualifiers for field analysis.

### **Validation Qualifier**

If cell is blank, then all quality control samples met acceptance criteria with respect to submitted samples.

A2 = Laboratory accuracy and/or bias measurements for the matrix spike and/or matrix spike duplicate samples do not acceptance criteria.

- B = Analyte present in associated laboratory method blank.
- B1 = Analyte present in associated trip blank sample.
- B2 = Analyte present in associated equipment blank sample.
- B3 = Analyte present in associated continuing calibration blank.
- J = Associate value is an estimated quantity.
- P1 =Laboratory precision measurements for the matrix spike and matrix spike duplicate do not meet acceptance criteria.
- R = The data are unusable for their intended purpose. The analyte may or may not be present.
- UJ = Analyte not detected above laboratory method detection limit, but associated value is an estimate and may be inaccurate or imprecise.
- #U = Analyte was qualified as not detected at listed value.

None = Data was not validated.

Appendices C-23

### Footnotes for Mixed Waste Landfill Groundwater Monitoring (Concluded)

### <sup>g</sup>Analytical Method

U.S. Environmental Protection Agency, 1990, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846. 3rd ed.

U.S. Environmental Protection Agency, 1983, "The Determination of Inorganic Anions in Water by Ion Chromatography-Method 300.0."

EPA-600/4-84-017.

Analytical method used to detect radionuclides is HASL 300 4.5.2.3;

U.S. Department of Energy, Environmental Measurements Laboratory, 1997, "EML Procedures Manual," 27th ed., Vol. 1, HASL-300.

EPA 903.0/904.0: U.S. Environmental Protection Agency, 1980, "Prescribed Procedures for Measurement of Radioactivity in Drinking Water," EPA-600/4-80-032.

### **hMDA**

The minimal detectable activity or minimum measured activity in a sample required to ensure a 95% probability that the measured activity is accurately quantified above the critical level.

### Field Water Quality Measurements

Field measurements collected prior to sampling.

°C = degrees Celsius

% Sat = percent Saturation

µmho/cm = micromhos per centimeter

mg/L = milligrams per liter

mV = millivolts

NTU = nephelometric turbidity units

pH = potential of hydrogen (negative logarithm of the hydrogen ion concentration)

### APPENDIX D

Tech Area V Groundwater Monitoring Surveillance Task

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## Summary of Detected Volatile Organic Compounds and Polychlorinated Biphenyls Technical Area V Groundwater Monitoring Table TAV D-1

Well ID	Analyte	Result <sup>a</sup> (µg/L)	MDL <sup>b</sup> (µg/L)	PQL° (µg/L)	MCL <sup>d</sup> (µg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
AVN-2 17-Nov-05	Toluene	0.938	0.25	1.0	1,000	В, Ј	1.0U, B	072441-001	SW846 8260
LWDS-MW1	Carbon Disulfide	4.92	1.25	5.0	R	٦	5.0U, B1, P2	072454-001	SW846 8260
01-Dec-05	Trichloroethene	15.3	0.25	1.0	5.0		P2	072454-001	SW846 8260
	cis-1,2-Dichloroethene	3.06	0.30	1.0	20		P2	072454-001	SW846 8260
TAV-MW1	Trichloroethene	4.98	0.25	1.0	5.0			072447-001	SW846 8260
22-Nov-05	cis-1,2-Dichloroethene	0.576	0.30	1.0	02	ר		072447-001	SW846 8260
TAV-MW1 (Duplicate)	Trichloroethene	5.81	0.25	1.0	5.0			072448-001	SW846 8260
22-Nov-05	cis-1,2-Dichloroethene	0.655	0:30	1.0	70	7		072448-001	SW846 8260
TAV-MW2 10-Nov-05	Trichloroethene	0.590	0.25	1.0	5.0	7		072429-001	SW846 8260
TAV-MW2 (Duplicate) 10-Nov-05	Trichloroethene	0.603	0.25	1.0	5.0	7		072430-001	SW846 8260
TAV-MW4	Chloroform	0.259	0.25	1.0	뮝	7		072434-001	SW846 8260
11-Nov-05	Trichloroethene	0.523	0.25	1.0	5.0	7		072434-001	SW846 8260
TAV-MW6	Toluene	0.620	0.25	1.0	1,000	В, Ј	1.0U, B	072438-001	SW846 8260
16-Nov-05	Trichloroethene	4.16	0.25	1.0	5.0			072438-001	SW846 8260
	cis-1,2-Dichloroethene	0.502	0.30	1.0	20	ſ		072438-001	SW846 8260
TAV-MW8 29-Nov-05	Trichloroethene	2.54	0.25	1.0	5.0			072450-001	SW846 8260
LWDS-MW1	Trichloroethene	15.8	0.25	1.0	5.0			073768-001	SW846 8260
07-Feb-06	cis-1,2-Dichloroethene	2.90	0.30	1.0	70			073768-001	SW846 8260
TAV-MW1	Acetone	2.78	1.25	5.0	NE	٦		073766-001	SW846 8260
16-Mar-06	Trichloroethene	3.15	0.25	1.0	5.0			073766-001	SW846 8260
TAV-MW2 26-Jan-06	Trichloroethene	0.569	0.25	1.0	5.0	٦		073746-001	SW846 8260
TAV-MW4	Chloroform	0.300	0.25	1.0	N	J		073748-001	SW846 8260
27-Jan-06	Trichloroethene	0.461	0.25	1.0	5.0	ſ		073748-001	SW846 8260
TAV-MW5 (Duplicate) 03-Feb-06	Carbon Disulfide	19.2	1.25	5.0	N		19.2U, B1	073764-001	SW846 8260
TAV-MW6	Trichloroethene	4.90	0.25	1.0	5.0			073770-001	SW846 8260
10-Feb-06	cis-1,2-Dichloroethene	0.464	0.30	1.0	20	ľ		073770-001	SW846 8260
TAV-MW8 31-13p 06	Trichloroethene	1.69	0.25	1.0	5.0			073753-001	SW846 8260
Refer to footnotes on page 31.									

Summary of Detected Volatile Organic Compounds and Polychlorinated Biphenyls Technical Area V Groundwater Monitoring **Table TAV D-1** 

## Fiscal Year 2006

Well ID	Analyte	Resulta	MDL	PQL°	MCLd	Laboratory	Validation	Sample No.	Analytical
		(hg/L)	(hg/L)	(hg/L)	(hg/L)	Qualitier	Qualifier		Method
AVIN-2 24-Mav-06	Acetone	2.40	1.25	2.0	빙	7		077821-001	SW846 8260
LWDS-MW1	Acetone	1.54	1.25	5.0	뮏	٦	5.0UJ, B2, TP	077832-001	SW846 8260
31-May-06	Trichloroethene	14.9	0.25	1.0	2.0		J, TP	077832-001	SW846 8260
	cis-1,2-Dichloroethene	2.88	0.30	1.0	20		J, TP	077832-001	SW846 8260
LWDS-MW2	Acetone	1.69	1.25	5.0	빙	٦	А, Ј	077812-001	SW846 8260
19-May-06	Carbon Disulfide	1.65	1.25	5.0	빙	٦		077812-001	SW846 8260
TAV-MW1	Trichloroethene	5.37	0.25	1.0	5.0		J, TP	077828-001	SW846 8260
31-May-06	cis-1,2-Dichloroethene	0.734	0:30	1.0	70	ſ	J, TP	077828-001	SW846 8260
TAV-MW2	Acetone	7.92	1.25	5.0	NE		7.92U, B1	077807-001	SW846 8260
17-May-06	Trichloroethene	0.496	0.25	1.0	5.0	٦		077807-001	SW846 8260
TAV-MW2 (Duplicate)	Acetone	7.06	1.25	5.0	뵘		7.06U, B1	077808-001	SW846 8260
17-May-06	Trichloroethene	0.555	0.25	1.0	2.0	ſ		077808-001	SW846 8260
TAV-MW3	Acetone	1.47	1.25	5.0	빌	7	5.0U, B1	077801-001	SW846 8260
TAV-MW4	Acetone	1.76	1.25	5.0	빙	7	A2, J	077810-001	SW846 8260
18-May-06	Chloroform	0.329	0.25	1.0	빙	7		077810-001	SW846 8260
	Trichloroethene	0.362	0.25	1.0	5.0	7		077810-001	SW846 8260
TAV-MW6	Trichloroethene	4.98	0.25	1.0	2.0			077818-001	SW846 8260
26-May-06	cis-1,2-Dichloroethene	0.643	0:30	1.0	70	ſ		077818-001	SW846 8260
TAV-MW6 (Duplicate)	Acetone	3.42	1.25	5.0	뵘	ſ	5.0U, B1	077819-001	SW846 8260
26-May-06	Trichloroethene	4.75	0.25	1.0	2.0			077819-001	SW846 8260
	cis-1,2-Dichloroethene	0.729	0.30	1.0	20	ſ		077819-001	SW846 8260
TAV-MW7	Acetone	1.62	1.25	5.0	뮏	٦		077805-001	SW846 8260
25-May-06	Carbon Disulfide	17.2	1.25	5.0	NE			077805-001	SW846 8260
	Methylene Chloride	2.10	2.00	5.0	2.0	ſ	5.0U, B1	077805-001	SW846 8260
TAV-MW8	Acetone	6.87	1.25	5.0	NE		6.87U, B1	077814-001	SW846 8260
16-May-06	Trichloroethene	1.23	0.25	1.0	2.0			077814-001	SW846 8260
AVN-1	Acetone	3.51	1.25	2.0	NE	J	5.0U, B1	081460-001	SW846 8260
05-Sep-06	Toluene	0.255	0.25	1.0	1,000	Ŋ		081460-001	SW846 8260
AVN-1 (Duplicate) 05-Sen-06	Acetone	3.10	1.25	5.0	Ŋ	٦	5.0U, B1	081461-001	SW846 8260
LWDS-MW1	Acetone	3.07	1.25	5.0	뮏	7		081470-001	SW846 8260
11-Sep-06	Toluene	0.424	0.25	1.0	1,000	ſ		081470-001	SW846 8260
	Trichloroethene	12.9	0.25	1.0	2.0			081470-001	SW846 8260
	cis-1,2-Dichloroethene	3.03	0.30	1.0	20			081470-001	SW846 8260

er to footnotes on page.

Summary of Detected Volatile Organic Compounds and Polychlorinated Biphenyls Technical Area V Groundwater Monitoring Table TAV D-1 (Concluded)

## Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (µg/L)	MDL <sup>b</sup> (µg/L)	PQL° (µg/L)	MCL <sup>d</sup> (µg/L)	Laboratory Qualifier <sup>®</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
TAV-MW1	Trichloroethene	4.75	0.25	1.0	5.0			081467-001	SW846 8260
07-Sep-06	cis-1,2-Dichloroethene	0.558	0:30	1.0	20	٦		081467-001	SW846 8260
TAV-MW1 (Duplicate)	Acetone	2.42	1.25	5.0	ЫN	٦	ר	081468-001	SW846 8260
07-Sep-06	Trichloroethene	4.58	0.25	1.0	5.0			081468-001	SW846 8260
	cis-1,2-Dichloroethene	0.494	0:30	1.0	20	ſ		081468-001	SW846 8260
TAV-MW2 24-Aug-06	Trichloroethene	0.362	0.25	1.0	5.0	ר		081447-001	SW846 8260
TAV-MW3 21-Aug-06	Toluene	0.256	0.25	1.0	1,000	J	1.0U, B1	081441-001	SW846 8260
TAV-MW4	Chloroform	0.250	0.25	1.0	N N	٦		081449-001	SW846 8260
28-Aug-06	Trichloroethene	0.391	0.25	1.0	5.0	ר		081449-001	SW846 8260
TAV-MW6	Acetone	3.37	1.25	5.0	ЫN	٦	5.0U, B1	081456-001	SW846 8260
31-Aug-06	Trichloroethene	6.34	0.25	1.0	5.0			081456-001	SW846 8260
	cis-1,2-Dichloroethene	0.841	0:30	1.0	20	ſ		081456-001	SW846 8260
TAV-MW8	Acetone	3.05	1.25	5.0	NE	J	5.0U, B1	081454-001	SW846 8260
30-Aug-06	Trichloroethene	1.47	0.25	1.0	5.0			081454-001	SW846 8260
Refer to footnotes on page 31.									

APPENDICES D-5

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Method Detection Limits for Volatile Organic Compounds and Polychlorinated Biphenyls Technical Area V Groundwater Monitoring Table TAV D-2

## Fiscal Year 2006

Analyte	mbr (J/g/L)	
1.1.1-Trichloroethane	0:30	SW846 8260
1,1,2,2-Tetrachloroethane	0.25	SW846 8260
1,1,2-Trichloroethane	0.25	SW846 8260
1,1-Dichloroethane	0:30	SW846 8260
1,1-Dichloroethene	0:30	SW846 8260
1,2-Dichloroethane	0.25	SW846 8260
1,2-Dichloropropane	0.25	SW846 8260
2-Butanone	1.25	SW846 8260
2-Hexanone	1.25	SW846 8260
4-methyl-, 2-Pentanone	1.25	SW846 8260
Acetone	1.25	SW846 8260
Benzene	0:30	SW846 8260
Bromodichloromethane	0.25	SW846 8260
Bromoform	0.25	SW846 8260
Bromomethane	0.50	SW846 8260
Carbon disulfide	1.25	SW846 8260
Carbon tetrachloride	0.25	SW846 8260
Chlorobenzene	0.25	SW846 8260
Chloroethane	0.50	SW846 8260
Chloroform	0.25	SW846 8260
Chloromethane	0.50	SW846 8260
Dibromochloromethane	0.25	SW846 8260
Ethyl benzene	0.25	SW846 8260
Methylene chloride	2.0	SW846 8260
Styrene	0.25	SW846 8260
Tetrachloroethene	0.25	SW846 8260
Toluene	0.25	SW846 8260
Trichloroethene	0.25	SW846 8260
Vinyl acetate	1.5	SW846 8260
Vinyl chloride	0.50	SW846 8260
Xylene	0.25	SW846 8260
cis-1,2-Dichloroethene	0.30	SW846 8260
cis-1,3-Dichloropropene	0.25	SW846 8260
trans-1,2-Dichloroethene	0.30	SW846 8260
trans-1,3-Dichloropropene	0.25	SW846 8260
Aroclor-1016	0.032 - 0.0352	SW846 8082
Aroclor-1221	0.032 - 0.0352	SW846 8082
Aroclor-1232	0.032 - 0.0352	SW846 8082
Aroclor-1242	0.032 - 0.0352	SW846 8082
Aroclor-1248	0.032 - 0.0352	SW846 8082
Aroclor-1254	0.032 - 0.0352	SW846 8082
Aroclor-1260 Refer to footmotes on mage 31	0.032 - 0.0352	SW846 8082
Kefer to toomores on page 51.		

APPENDICES

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## Table TAV D-3 Summary of Nitrate plus Nitrite Results Technical Area V Groundwater Monitoring

## Fiscal Year 2006

Well ID									
	Sample Date	Nitrite Nitrite Result	MDL <sup>b</sup> (ma/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>é</sup>	Sample No.	Analytical Method <sup>g</sup>
		(ma/L)	( )	(1.6)	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )				
AVN-1	28-Nov-05	8.65	0.17	0.50	10			072443-018	EPA 353.1
	02-Feb-06	8.86	0.085	0.25	10			073761-018	EPA 353.1
	25-May-06	7.79	0.14	0.50	10	В		077823-018	EPA 353.1
	05-Sep-06	9.20	0.07	0.25	10			081460-018	EPA 353.1
AVN-1 (Duplicate)	05-Sep-06	9.28	0.07	0.25	10			081461-018	EPA 353.1
AVN-2	17-Nov-05	8.33	0.17	0.50	10			072441-018	EPA 353.1
	01-Feb-06	7.97	0.085	0.25	10			073757-018	EPA 353.1
	24-May-06	6.32	0.14	0.50	10	В		077821-018	EPA 353.1
LWDS-MW1	01-Dec-05	10.6	0.17	0.50	10			072454-018	EPA 353.1
	07-Feb-06	13.3	0.17	0.50	10			073768-018	EPA 353.1
	31-May-06	6.91	0.14	0.50	10		A2, J, TP	077832-018	EPA 353.1
	11-Sep-06	13.0	0.070	0.25	10			081470-018	EPA 353.1
LWDS-MW1 (Reanalysis)	31-May-06	8.13	0.070	0.25	10	I	HT, J, TP	077832-R18	EPA 353.1
LWDS-MW2	14-Nov-05	6.80	0.17	0.50	10			072436-018	EPA 353.1
	30-Jan-06	6.31	0.17	0.50	10			073750-018	EPA 353.1
	19-May-06	6.32	0.14	0.50	10	В		077812-018	EPA 353.1
	29-Aug-06	7.75	0.070	0.25	10			081451-018	EPA 353.1
TAV-MW1	22-Nov-05	92'9	0.17	0.50	10			072447-018	EPA 353.1
	16-Mar-06	7.03	0.17	0.50	10			073766-018	EPA 353.1
	31-May-06	9.81	0.14	0.50	10		A2, J, TP	077828-018	EPA 353.1
	07-Sep-06	8.51	0.07	0.25	10			081467-018	EPA 353.1
TAV-MW1 (Reanalysis)	31-May-06	12.0	0.07	0.25	10	T	HT, J, TP	077828-R18	EPA 353.1
TAV-MW1 (Duplicate)	22-Nov-05	7.63	0.17	0.50	10			072448-018	EPA 353.1
	07-Sep-06	8.33	0.070	0.25	10			081468-018	EPA 353.1
TAV-MW2	10-Nov-05	1.22	0.085	0.25	10			072429-018	EPA 353.1
	26-Jan-06	2.57	0.085	0.25	10	I	HT, J	073746-018	EPA 353.1
	17-May-06	2.78	0.014	0.05	10	В		077807-018	EPA 353.1
	24-Aug-06	2.79	0.070	0.25	10	В		081447-018	EPA 353.1
TAV-MW2 (Duplicate)	10-Nov-05	1.30	0.085	0.25	10			072430-018	EPA 353.1
	17-May-06	2.82	0.014	0.05	10	В		077808-018	EPA 353.1
TAV-MW3	07-Nov-05	3.85	0.17	0.50	10			072423-018	EPA 353.1
	24-Jan-06	4.93	0.017	0.05	10			073739-018	EPA 353.1
	15-May-06	4.28	0.014	0.05	10	В		077801-018	EPA 353.1
	21-Aug-06	4.68	0.070	0.25	10			081441-018	EPA 353.1

APPENDICES

## Summary of Nitrate plus Nitrite Results Technical Area V Groundwater Monitoring Table TAV D-3 (Concluded)

Table TAV D-4
Summary of Anion Results
Technical Area V Groundwater Monitoring

## Fiscal Year 2006

Well ID	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Validation Qualifier <sup>®</sup> Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
AVN-1	Bromide	0.133	990.0	0.200	빙	٦		081460-016	SW846-9056
05-Sep-06	Chloride	9.07	0.066	0.200	NE		A2, J	081460-016	SW846-9056
	Fluoride	1.20	0.033	0.100	4			081460-016	SW846-9056
	Sulfate	30.7	0.100	0.400	NE			081460-016	SW846-9056
LWDS-MW1	Bromide	0.752	0.066	0.200	NE			081470-016	SW846-9056
11-Sep-06	Chloride	73.0	0.660	2.0	NE			081470-016	SW846-9056
	Fluoride	0.568	0.033	0.100	4			081470-016	SW846-9056
	Sulfate	40.3	1.0	4.0	빙			081470-016	SW846-9056
LWDS-MW2	Bromide	0.186	0.066	0.200	NE	J		081451-016	SW846-9056
29-Aug-06	Chloride	15.3	0.066	0.200	NE			081451-016	SW846-9056
	Fluoride	1.15	0.033	0.100	4			081451-016	SW846-9056
	Sulfate	38.2	0.200	0.800	빙			081451-016	SW846-9056
TAV-MW1	Bromide	0.295	990.0	0.200	빙			081467-016	SW846-9056
07-Sep-06	Chloride	48.9	0.330	1.0	빙			081467-016	SW846-9056
	Fluoride	1.17	0.033	0.100	4			081467-016	SW846-9056
	Sulfate	51.3	0.500	2.0	빙			081467-016	SW846-9056
TAV-MW2	Bromide	0.378	0.066	0.200	NE			081447-016	SW846-9056
24-Aug-06	Chloride	62.7	0.660	2.0	NE			081447-016	SW846-9056
	Fluoride	0.938	0.033	0.100	4			081447-016	SW846-9056
	Sulfate	53.2	1.0	4.0	NE			081447-016	SW846-9056
TAV-MW3	Bromide	0.239	0.066	0.200	NE			081441-016	SW846-9056
21-Aug-06	Chloride	25.8	0.132	0.400	NE			081441-016	SW846-9056
	Fluoride	1.54	0.033	0.100	4			081441-016	SW846-9056
	Sulfate	64.7	0.200	0.800	NE			081441-016	SW846-9056
TAV-MW4	Bromide	0.276	0.066	0.200	NE			081449-016	SW846-9056
28-Aug-06	Chloride	24.7	0.132	0.400	NE			081449-016	SW846-9056
	Fluoride	1.12	0.033	0.100	4			081449-016	SW846-9056
	Sulfate	36.5	0.100	0.400	NE			081449-016	SW846-9056
TAV-MW5	Bromide	0.153	0.066	0.200	NE	J		081465-016	SW846-9056
90-Seb-06	Chloride	17.1	0.066	0.200	NE			081465-016	SW846-9056
	Fluoride	1.22	0.033	0.100	4			081465-016	SW846-9056
	Sulfate	40.5	0.200	0.800	NE			081465-016	SW846-9056
TAV-MW6	Bromide	0.473	0.066	0.200	NE			081456-016	SW846-9056
31-Aug-06	Chloride	46.6	0.660	2.0	Ŋ			081456-016	SW846-9056
	Fluoride	1.13	0.033	0.100	4			081456-016	SW846-9056
	Sulfate	48.2	1.0	4.0	Ŋ			081456-016	SW846-9056
Refer to tootnotes on page 31.									

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## Table TAV D-4 (Concluded) Summary of Anion Results Technical Area V Groundwater Monitoring

כו ווס/א	Op/Jone	Resulta	MDL	PQL°	MCL	Laboratory Validation	Validation	00000	
	Alialyte	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Qualifier <sup>e</sup>   Qualifier <sup>f</sup>	Qualifierf	Sallipie NO.	Allalytical Method
TAV-MW7	Bromide	QN	0.066	0.200	N	n		081445-016	SW846-9056
23-Aug-06	Chloride	27.5	0.132	0.400	NE			081445-016	SW846-9056
	Fluoride	1.06	0.033	0.100	4			081445-016	SW846-9056
	Sulfate	2.69	0.200	0.800	NE			081445-016	SW846-9056
TAV-MW8	Bromide	0.251	990.0	0.200	N			081454-016	SW846-9056
30-Aug-06	Chloride	33.5	0.330	1.0	빙			081454-016	SW846-9056
	Fluoride	1.32	0.033	0.100	4			081454-016	SW846-9056
	Sulfate	49.9	0.500	2.0	빙			081454-016	SW846-9056
TAV-MW9	Bromide	0.223	0.066	0.200	NE			081443-016	SW846-9056
22-Aug-06	Chloride	29.5	0.132	0.400	NE			081443-016	SW846-9056
	Fluoride	0.847	0.033	0.100	4			081443-016	SW846-9056
	Sulfate	51.5	0.200	0.800	빙			081443-016	SW846-9056
Refer to footnotes on page 31.									

Table TAV D-5 Summary of Total Metal Results Technical Area V Groundwater Monitoring

## Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier*	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
AVN-1	Aluminum	0.00762	0.005	0.015	焸	7		081460-009	SW846 3005
05-Sep-06	Antimony	ND	0.0005	0.002	900'0	B, U		081460-009	SW846 3005
	Arsenic	0.00159	0.0015	0.005	0.01	7		081460-009	SW846 3005
	Barium	0.0723	0.0005	0.002	2			081460-009	SW846 3005
	Beryllium	QN	0.0001	0.0005	0.004	n		081460-009	SW846 3005
	Cadmium	0.00028	0.0001	0.001	0.005	ſ		081460-009	SW846 3005
	Calcium	36.1	0.02	0.1	NE	В		081460-009	SW846 3005
	Chromium	0.00285	0.001	0.003	0.1	В, Ј	В, Ј	081460-009	SW846 3005
	Cobalt	ND	0.0001	0.001	NE	n		081460-009	SW846 3005
	Copper	0.00168	0.0002	0.001	JN	В	В, Ј	081460-009	SW846 3005
	Iron	0.0959	0.01	0.025	NE			081460-009	SW846 3005
	Lead	ND	0.0005	0.002	NE	n		081460-009	SW846 3005
	Magnesium	9.44	0.005	0.015	NE			081460-009	SW846 3005
	Manganese	ND	0.001	0.005	NE	n		081460-009	SW846 3005
	Mercury	ND	900000	0.0002	0.002	n		081460-009	SW846 7470
	Nickel	0.000744	0.0005	0.002	NE	ſ		081460-009	SW846 3005
	Potassium	3.09	0.08	0.3	NE			081460-009	SW846 3005
	Selenium	ND	0.0025	0.005	0.05	n		081460-009	SW846 3005
	Silver	ND	0.0002	0.001	NE	n		081460-009	SW846 3005
	Sodium	40.0	0.08	0.25	NE			081460-009	SW846 3005
	Thallium	0.00054	0.0004	0.001	0.002	٦		081460-009	SW846 3005
	Uranium	0.00201	0.00005	0.0002	0.03			081460-009	SW846 3005
	Vanadium	0.00582	0.002	0.03	NE	ſ		081460-009	SW846 3005
	Zinc	0.00635	0.002	0.01	NE	В, Ј	В, Ј	081460-009	SW846 3005

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## Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
Alur	Aluminum	0.0107	0.005	0.015	뮏	В, Ј		081470-009	SW846 3005
Anti	Antimony	QN	0.0005	0.002	0.006	B, U		081470-009	SW846 3005
Arse	Arsenic	QN	0.0015	0.005	0.01	n		081470-009	SW846 3005
Barium	mn	0.0872	0.0005	0.002	2			081470-009	SW846 3005
Bery	Beryllium	QN	0.0001	0.0005	0.004	D		081470-009	SW846 3005
Cad	Cadmium	0.000142	0.0001	0.001	0.005	7		081470-009	SW846 3005
Calc	Calcium	9.69	0.1	0.5	N			081470-009	SW846 3005
Chr	Chromium	QN	0.001	0.003	0.1	Э		081470-009	SW846 3005
Cobalt	alt	0.000202	0.0001	0.001	NE	٦		081470-009	SW846 3005
Copper	per	0.00157	0.0002	0.001	NE			081470-009	SW846 3005
ron		0.141	0.01	0.025	N			081470-009	SW846 3005
Lead	p	QN	0.0005	0.002	NE	Π		081470-009	SW846 3005
Mag	Magnesium	19.8	0.005	0.015	NE	В		081470-009	SW846 3005
Mar	Manganese	0.00118	0.001	0.005	NE	٦		081470-009	SW846 3005
Mer	Mercury	QN	0.00006	0.0002	0.002	Ω	B3, UJ	081470-009	SW846 7470
Nickel	(el	0.00274	0.0005	0.002	NE			081470-009	SW846 3005
Pot	Potassium	2.98	0.08	0.3	NE			081470-009	SW846 3005
Sele	Selenium	0.00496	0.0025	0.005	0.05	٦		081470-009	SW846 3005
Silver	er	ND	0.0002	0.001	NE	n		081470-009	SW846 3005
Sodium	lium	57.0	0.4	1.25	NE			081470-009	SW846 3005
Tha	Thallium	0.000695	0.0004	0.001	0.002	٦	ВЗ, Ј	081470-009	SW846 3005
Ura	Jranium	0.00357	0.00005	0.0002	0.03			081470-009	SW846 3005
Van	Vanadium	0.0151	0.002	0.03	N	В, Ј	В, Ј	081470-009	SW846 3005
Zinc		0.0151	0.002	0.01	NE			081470-009	SW846 3005

Refer to footnotes on page 31.

## Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
WDS-MW2	Aluminum	0.0138	0.005	0.015	뮌	В, Ј	В, Ј	081451-009	SW846 3005
9-Aug-06	Antimony	ND	0.0005	0.002	900.0	B, U		081451-009	SW846 3005
	Arsenic	0.00211	0.0015	0.005	0.01	В, Ј	В, Ј	081451-009	SW846 3005
	Barium	0.072	0.0005	0.002	2			081451-009	SW846 3005
	Beryllium	QN	0.0001	0.0005	0.004	Э		081451-009	SW846 3005
	Cadmium	0.000276	0.0001	0.001	0.005	٦		081451-009	SW846 3005
	Calcium	42.6	0.02	0.1	빙	В		081451-009	SW846 3005
	Chromium	0.0038	0.001	0.003	0.1			081451-009	SW846 3005
	Cobalt	QN	0.0001	0.001	빙	Э		081451-009	SW846 3005
	Copper	0.000776	0.0002	0.001	빙	В, Ј	В, Ј	081451-009	SW846 3005
	Iron	0.158	0.01	0.025	빙			081451-009	SW846 3005
	Lead	QN	0.0005	0.002	빙	Э		081451-009	SW846 3005
	Magnesium	12.0	0.005	0.015	빙			081451-009	SW846 3005
	Manganese	ND	0.001	0.005	NE	n		081451-009	SW846 3005
	Mercury	ND	0.00006	0.0002	0.002	D	B3, UJ	081451-009	SW846 7470
	Nickel	0.00105	0.0005	0.002	IJN.	В, Ј	В, Ј	081451-009	SW846 3005
	Potassium	2.66	0.08	6.0	NE			081451-009	SW846 3005
	Selenium	ND	0.0025	900'0	0.05	n		081451-009	SW846 3005
	Silver	ND	0.0002	0.001	NE	n		081451-009	SW846 3005
	Sodium	42.7	0.08	0.25	NE			081451-009	SW846 3005
	Thallium	0.00085	0.0004	0.001	0.002	ſ	ВЗ, Ј	081451-009	SW846 3005
	Uranium	0.00302	0.00005	0.0002	0.03	В		081451-009	SW846 3005
	Vanadium	0.00347	0.002	0.03	NE	ſ		081451-009	SW846 3005
	Zinc	0.00263	0.002	0.01	핑	В, Ј	В, Ј	081451-009	SW846 3005
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## Fiscal Year 2006

Well ID	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
TAV-MW1	Aluminum	0.0968	0.005	0.015	Ŋ			081467-009	SW846 3005
07-Sep-06	Antimony	ND	0.0005	0.002	0.006	B, U		081467-009	SW846 3005
	Arsenic	ND	0.0015	0.005	0.01	n		081467-009	SW846 3005
	Barium	0.0669	0.0005	0.002	2			081467-009	SW846 3005
	Beryllium	ND	0.0001	0.0005	0.004	n		081467-009	SW846 3005
	Cadmium	ND	0.0001	0.001	0.005	n		081467-009	SW846 3005
	Calcium	60.7	0.1	0.5	NE	В		081467-009	SW846 3005
	Chromium	0.00334	0.001	0.003	0.1	В	В, Ј	081467-009	SW846 3005
	Cobalt	0.000146	0.0001	0.001	NE	ſ	В3, Ј	081467-009	SW846 3005
	Copper	0.000733	0.0002	0.001	NE	В, Ј	В, Ј	081467-009	SW846 3005
	Iron	0.196	0.01	0.025	NE			081467-009	SW846 3005
	Lead	ND	0.0005	0.002	NE	n		081467-009	SW846 3005
	Magnesium	18.8	0.005	0.015	NE			081467-009	SW846 3005
	Manganese	0.00223	0.001	0.005	NE	ſ		081467-009	SW846 3005
	Mercury	ND	0.00006	0.0002	0.002	n		081467-009	SW846 7470
	Nickel	0.00157	0.0005	0.002	NE	ľ		081467-009	SW846 3005
	Potassium	4.07	0.08	0.3	NE			081467-009	SW846 3005
	Selenium	0.00268	0.0025	0.005	0.05	ſ		081467-009	SW846 3005
	Silver	ND	0.0002	0.001	NE	n		081467-009	SW846 3005
	Sodium	62.4	0.4	1.25	NE			081467-009	SW846 3005
	Thallium	ND	0.0004	0.001	0.002	n		081467-009	SW846 3005
	Uranium	0.00417	0.00005	0.0002	0.03	В		081467-009	SW846 3005
	Vanadium	0.00393	0.002	0.03	NE	ſ		081467-009	SW846 3005
	Zinc	0.00549	0.002	0.01	NE	В, Ј	В, Ј	081467-009	SW846 3005

Refer to footnotes on page 31.

## Fiscal Year 2006

Well ID	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
TAV-MW2	Aluminum	0.156	0.005	0.015	빙			081447-009	SW846 3005
24-Aug-06	Antimony	Q	0.0005	0.002	900.0	B, U		081447-009	SW846 3005
	Arsenic	Q	0.0015	0.005	0.01	n		081447-009	SW846 3005
	Barium	0.0642	0.0005	0.002	2			081447-009	SW846 3005
	Beryllium	Q	0.0001	0.0005	0.004	n		081447-009	SW846 3005
	Cadmium	QN	0.0001	0.001	0.005	n		081447-009	SW846 3005
	Calcium	66.2	0.1	0.5	Ŋ	В		081447-009	SW846 3005
	Chromium	0.00196	0.001	0.003	0.1	٦		081447-009	SW846 3005
	Cobalt	0.000286	0.0001	0.001	JN	ſ		081447-009	SW846 3005
	Copper	0.000764	0.0002	0.001	JN.	ſ		081447-009	SW846 3005
	Iron	0.372	0.01	0.025	JN			081447-009	SW846 3005
	Lead	QN	0.0005	0.002	JN.	n		081447-009	SW846 3005
	Magnesium	23.4	0.005	0.015	NE			081447-009	SW846 3005
	Manganese	0.0079	0.001	0.005	NE			081447-009	SW846 3005
	Mercury	QN	9000000	0.0002	0.002	n	B3, UJ	081447-009	SW846 7470
	Nickel	0.00192	0.0005	0.002	JN	ſ		081447-009	SW846 3005
	Potassium	2.99	0.08	0.3	NE			081447-009	SW846 3005
	Selenium	ND	0.0025	0.005	0.05	n		081447-009	SW846 3005
	Silver	ND	0.0002	0.001	NE	n		081447-009	SW846 3005
	Sodium	64.0	0.4	1.25	NE			081447-009	SW846 3005
	Thallium	QN	0.0004	0.001	0.002	n		081447-009	SW846 3005
	Uranium	0.00686	0.00005	0.0002	0.03			081447-009	SW846 3005
	Vanadium	0.00269	0.002	0.03	NE	ſ		081447-009	SW846 3005
	Zinc	0.00653	0.002	0.01	NE	ľ		081447-009	SW846 3005
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Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
TAV-MW3	Aluminum	0.109	0.005	0.015	NE	В	J, P1	081441-009	SW846 3005
21-Aug-06	Antimony	ND	0.0005	0.002	900.0	D		081441-009	SW846 3005
	Arsenic	ND	0.0015	0.005	0.01	ח		081441-009	SW846 3005
	Barium	0.0475	0.0005	0.002	2		J, P1	081441-009	SW846 3005
	Beryllium	ND	0.0001	0.0005	0.004	ח		081441-009	SW846 3005
	Cadmium	0.000103	0.0001	0.001	0.005	٦		081441-009	SW846 3005
	Calcium	25.5	0.2	1.0	IJN.	В		081441-009	SW846 3005
	Chromium	ND	0.001	0.003	0.1	ח		081441-009	SW846 3005
	Cobalt	0.000182	0.0001	0.001	NE	٦		081441-009	SW846 3005
	Copper	0.00098	0.0002	0.001	NE	В, Ј	В, Ј	081441-009	SW846 3005
	Iron	0.192	0.01	0.025	NE		J, P1	081441-009	SW846 3005
	Lead	ND	0.0005	0.002	NE	ח		081441-009	SW846 3005
	Magnesium	13.5	0.01	0.03	JN			081441-009	SW846 3005
	Manganese	0.00741	0.001	0.005	NE			081441-009	SW846 3005
	Mercury	ND	900000	0.0002	0.002	n	B3, UJ	081441-009	SW846 7470
	Nickel	0.00101	0.0005	0.002	NE	ſ		081441-009	SW846 3005
	Potassium	4.20	0.08	0.3	NE			081441-009	SW846 3005
	Selenium	ND	0.0025	0.005	0.05	n		081441-009	SW846 3005
	Silver	ND	0.0002	0.001	NE	n		081441-009	SW846 3005
	Sodium	23.1	0.8	2.5	NE			081441-009	SW846 3005
	Thallium	0.000976	0.0004	0.001	0.002	ſ	ВЗ, Ј	081441-009	SW846 3005
	Uranium	0.00338	0.00005	0.0002	0.03		J, P1	081441-009	SW846 3005
	Vanadium	0.00233	0.002	0.03	NE	ſ		081441-009	SW846 3005
	Zinc	0.00898	0.002	0.01	NE	В, Л	В, Ј	081441-009	SW846 3005

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Refer to footnotes on page 31.

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Well ID	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
TAV-MW4	Aluminum	0.0129	0.005	0.015	Ŋ	В, Ј	В, Ј	081449-009	SW846 3005
28-Aug-06	Antimony	QN	0.0005	0.002	900.0	n		081449-009	SW846 3005
	Arsenic	QN	0.0015	0.005	0.01	n		081449-009	SW846 3005
	Barium	0.0869	0.0005	0.002	2			081449-009	SW846 3005
	Beryllium	QN	0.0001	0.0005	0.004	n		081449-009	SW846 3005
	Cadmium	0.000109	0.0001	0.001	0.005	7		081449-009	SW846 3005
	Calcium	43.1	0.02	0.1	NE	В		081449-009	SW846 3005
	Chromium	90600.0	0.001	0.003	0.1			081449-009	SW846 3005
	Cobalt	0.00033	0.0001	0.001	NE	ſ		081449-009	SW846 3005
	Copper	0.000498	0.0002	0.001	NE	Ŋ		081449-009	SW846 3005
	Iron	0.164	0.01	0.025	NE	В		081449-009	SW846 3005
	Lead	Q	0.0005	0.002	Ŋ	ח		081449-009	SW846 3005
	Magnesium	12.7	0.005	0.015	NE			081449-009	SW846 3005
	Manganese	0.00116	0.001	0.005	NE	ſ		081449-009	SW846 3005
	Mercury	QN	0.00006	0.0002	0.002	n	B3, UJ	081449-009	SW846 7470
	Nickel	0.00101	0.0005	0.002	NE	ſ		081449-009	SW846 3005
	Potassium	2.77	0.08	0.3	NE			081449-009	SW846 3005
	Selenium	0.00279	0.0025	0.005	0.05	ſ		081449-009	SW846 3005
	Silver	QN	0.0002	0.001	NE	n		081449-009	SW846 3005
	Sodium	42.2	0.08	0.25	NE			081449-009	SW846 3005
	Thallium	0.000763	0.0004	0.001	0.002	l,	ВЗ, Ј	081449-009	SW846 3005
	Uranium	0.00316	0.00005	0.0002	0.03			081449-009	SW846 3005
	Vanadium	0.00408	0.002	0.03	NE	Ŋ		081449-009	SW846 3005
	Zinc	0.00218	0.002	0.01	NE	ſ		081449-009	SW846 3005

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Well ID	Analyte	Resulta	MDL	PQL°	MCLd	Laboratory	Validation	Sample No.	Analytical
	•	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Qualitier	Qualitier		Methody
TAV-MW5	Aluminum	0.00674	0.005	0.015	NE	٦		081465-009	SW846 3005
06-Sep-06	Antimony	0.00064	0.0005	0.002	900'0	В, Ј	В, ВЗ, Ј	081465-009	SW846 3005
	Arsenic	Q	0.0015	0.005	0.01	⊃		081465-009	SW846 3005
	Barium	0.0604	0.0005	0.002	2			081465-009	SW846 3005
	Beryllium	Q	0.0001	0.0005	0.004	⊃		081465-009	SW846 3005
	Cadmium	Q	0.0001	0.001	0.005	)		081465-009	SW846 3005
	Calcium	50.8	0.1	0.5	빙	В		081465-009	SW846 3005
	Chromium	0.00263	0.001	0.003	0.1	В, Ј	В, Ј	081465-009	SW846 3005
	Cobalt	QN	0.0001	0.001	Ŋ	D		081465-009	SW846 3005
	Copper	0.00122	0.0002	0.001	빙	В		081465-009	SW846 3005
	Iron	0.114	0.01	0.025	빙			081465-009	SW846 3005
	Lead	0.000571	0.0005	0.002	빙	7	В3, Ј	081465-009	SW846 3005
	Magnesium	15.7	0.005	0.015	빙			081465-009	SW846 3005
	Manganese	Q	0.001	0.005	빙	J		081465-009	SW846 3005
	Mercury	Q	0.00006	0.0002	0.002	)		081465-009	SW846 7470
	Nickel	0.000919	0.0005	0.002	빙	7		081465-009	SW846 3005
	Potassium	2.78	0.08	0.3	焸			081465-009	SW846 3005
	Selenium	QN	0.0025	0.005	0.05	n		081465-009	SW846 3005
	Silver	Q	0.0002	0.001	빙	J		081465-009	SW846 3005
	Sodium	49.4	0.4	1.25	빙			081465-009	SW846 3005
	Thallium	0.000562	0.0004	0.001	0.002	7		081465-009	SW846 3005
	Uranium	0.0036	0.00005	0.0002	0.03	В		081465-009	SW846 3005
	Vanadium	0.00643	0.002	0.03	빙	7		081465-009	SW846 3005
	Zinc	0.00324	0.002	0.01	빙	В, Ј	В, Ј	081465-009	SW846 3005
To show the second response to the second res									

### Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
FAV-MW6	Aluminum	0.016	0.005	0.015	N N	В	В, С	081456-009	SW846 3005
31-Aug-06	Antimony	ND	0.0005	0.002	0.006	B, U		081456-009	SW846 3005
	Arsenic	ND	0.0015	0.005	0.01	Э		081456-009	SW846 3005
	Barium	0.0582	0.0005	0.002	2			081456-009	SW846 3005
	Beryllium	ND	0.0001	0.0005	0.004	Э		081456-009	SW846 3005
	Cadmium	ND	0.0001	0.001	0.005	Э		081456-009	SW846 3005
	Calcium	57.8	0.2	1.0	IJ	В		081456-009	SW846 3005
	Chromium	0.00109	0.001	0.003	0.1	7		081456-009	SW846 3005
	Cobalt	ND	0.0001	0.001	ШZ	ס		081456-009	SW846 3005
	Copper	0.00078	0.0002	0.001	ШZ	7		081456-009	SW846 3005
	Iron	0.151	0.01	0.025	ШZ			081456-009	SW846 3005
	Lead	ND	0.0005	0.002	IJ.	<b>ס</b>		081456-009	SW846 3005
	Magnesium	19.4	0.005	0.015	N N			081456-009	SW846 3005
	Manganese	ND	0.001	0.005	NE	n		081456-009	SW846 3005
	Mercury	ND	90000'0	0.0002	0.002	n	B3, UJ	081456-009	SW846 7470
	Nickel	0.00119	0.0005	0.002	IJN.	7		081456-009	SW846 3005
	Potassium	3.40	0.08	0.3	IJ.			081456-009	SW846 3005
	Selenium	0.00296	0.0025	0.005	0.05	٦		081456-009	SW846 3005
	Silver	ND	0.0002	0.001	NE	n		081456-009	SW846 3005
	Sodium	61.9	8.0	2.5	NE			081456-009	SW846 3005
	Thallium	0.000672	0.0004	0.001	0.002	7	В3, Ј	081456-009	SW846 3005
	Uranium	0.00401	0.00005	0.0002	0.03			081456-009	SW846 3005
	Vanadium	0.00463	0.002	0.03	NE	ſ		081456-009	SW846 3005
	Zinc	0.0132	0.002	0.01	Ŋ	В	В, Ј	081456-009	SW846 3005

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Mellio	Analyte	Result <sup>a</sup> (mg/L)	MDL" (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
TAV-MW7	Aluminum	0.0523	0.005	0.015	N			081445-009	SW846 3005
23-Aug-06 Ar	Antimony	ND	0.0005	0.002	0.006	B, U		081445-009	SW846 3005
Ā	Arsenic	QN	0.0015	0.005	0.01	ם		081445-009	SW846 3005
<u> </u>	Barium	0.054	0.0005	0.002	2			081445-009	SW846 3005
<u> </u>	Beryllium	QN	0.0001	0.0005	0.004	ס		081445-009	SW846 3005
<u>  Ö</u>	Cadmium	ND	0.0001	0.001	0.005	ס		081445-009	SW846 3005
<u>                                     </u>	Calcium	51.3	0.1	0.5	N	В		081445-009	SW846 3005
Chromiu	Chromium	QN	0.001	0.003	0.1	ס		081445-009	SW846 3005
<u>  ŏ</u>	Cobalt	0.000123	0.0001	0.001	N	7		081445-009	SW846 3005
<u>  ŏ</u>	Copper	0.000988	0.0002	0.001	NE	В, Ј	B, J	081445-009	SW846 3005
<u> </u>	uc	0.211	0.01	0.025	NE			081445-009	SW846 3005
Le	ead	QN	0.0005	0.002	NE	n		081445-009	SW846 3005
M	Magnesium	16.3	0.005	0.015	NE			081445-009	SW846 3005
M	Manganese	0.00244	0.001	0.005	NE	J		081445-009	SW846 3005
M	Mercury	QN	0.00006	0.0002	0.002	n	B3, UJ	081445-009	SW846 7470
Z	ickel	0.00112	0.0005	0.002	NE	ſ		081445-009	SW846 3005
PC	Potassium	3.63	0.08	0.3	NE			081445-009	SW846 3005
Š	Selenium	ND	0.0025	0.005	0.05	n		081445-009	SW846 3005
ÏS	ilver	QN	0.0002	0.001	NE	n		081445-009	SW846 3005
S	Sodium	1.64	0.4	1.25	NE			081445-009	SW846 3005
Ė	Thallium	QN	0.0004	0.001	0.002	n		081445-009	SW846 3005
ı	Jranium	0.00486	0.00005	0.0002	0.03			081445-009	SW846 3005
N.	Vanadium	0.00371	0.002	0.03	NE	ſ		081445-009	SW846 3005
l <u>Z</u>	nc	0.00617	0.002	0.01	NE	B, J	В, Ј	081445-009	SW846 3005

### Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
TAV-MW8	Aluminum	0.0131	0.005	0.015	N	7		081454-009	SW846 3005
30-Aug-06	Antimony	QN	0.0005	0.002	900.0	ס		081454-009	SW846 3005
	Arsenic	QN	0.0015	0.005	0.01	ס		081454-009	SW846 3005
	Barium	0.0519	0.0005	0.002	2			081454-009	SW846 3005
	Beryllium	QN	0.0001	0.0005	0.004	ס		081454-009	SW846 3005
	Cadmium	QN	0.0001	0.001	0.005	Э		081454-009	SW846 3005
	Calcium	51.7	0.1	0.5	NE	В		081454-009	SW846 3005
	Chromium	0.00292	0.001	0.003	0.1	В, Ј	В, Ј	081454-009	SW846 3005
	Cobalt	0.000109	0.0001	0.001	NE	7		081454-009	SW846 3005
	Copper	0.000721	0.0002	0.001	NE	ſ		081454-009	SW846 3005
	Iron	0.194	0.01	0.025	NE			081454-009	SW846 3005
	Lead	QN	0.0005	0.002	NE	n		081454-009	SW846 3005
	Magnesium	13.8	0.005	0.015	NE			081454-009	SW846 3005
	Manganese	QN	0.001	0.005	NE	ח		081454-009	SW846 3005
	Mercury	QN	90000.0	0.0002	0.002	<b>ס</b>	B3, UJ	081454-009	SW846 7470
	Nickel	0.000922	0.0005	0.002	NE	ſ		081454-009	SW846 3005
	Potassium	3.14	0.08	0.3	NE			081454-009	SW846 3005
	Selenium	0.00276	0.0025	0.005	0.05	7		081454-009	SW846 3005
	Silver	QN	0.0002	0.001	NE	ח		081454-009	SW846 3005
	Sodium	47.3	9.0	1.25	NE			081454-009	SW846 3005
	Thallium	QN	0.0004	0.001	0.002	ס		081454-009	SW846 3005
	Uranium	0.00306	0.00005	0.0002	0.03			081454-009	SW846 3005
	Vanadium	QN	0.002	0.03	NE	n		081454-009	SW846 3005
	Zinc	0.00516	0.002	0.01	NE	٦		081454-009	SW846 3005

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Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
TAV-MW9	Aluminum	0.200	0.005	0.015	N			081443-009	SW846 3005
22-Aug-06	Antimony	ND	0.0005	0.002	900'0	n		081443-009	SW846 3005
	Arsenic	QN	0.0015	0.005	0.01	ח		081443-009	SW846 3005
	Barium	0.0538	0.0005	0.002	2			081443-009	SW846 3005
	Beryllium	Q	0.0001	0.0005	0.004	J		081443-009	SW846 3005
	Cadmium	Q	0.0001	0.001	0.005	ר		081443-009	SW846 3005
	Calcium	47.7	0.02	0.1	IJ N	В		081443-009	SW846 3005
	Chromium	0.0027	0.001	0.003	0.1	В, Ј	В, Ј	081443-009	SW846 3005
	Cobalt	0.000208	0.0001	0.001	빙	7		081443-009	SW846 3005
	Copper	0.00198	0.0002	0.001	빙			081443-009	SW846 3005
	Iron	0.303	0.01	0.025	빙			081443-009	SW846 3005
	Lead	QN	0.0005	0.002	NE	n		081443-009	SW846 3005
	Magnesium	17.0	0.005	0.015	Ŋ			081443-009	SW846 3005
	Manganese	0.00798	0.001	0.005	Ŋ			081443-009	SW846 3005
	Mercury	Q	0.0000	0.0002	0.002	n	B3, UJ	081443-009	SW846 7470
	Nickel	0.00188	0.0005	0.002	NE	ſ		081443-009	SW846 3005
	Potassium	3.10	0.08	0.3	N			081443-009	SW846 3005
	Selenium	QN	0.0025	0.005	0.05	n		081443-009	SW846 3005
	Silver	QN	0.0002	0.001	NE	n		081443-009	SW846 3005
	Sodium	45.4	0.08	0.25	NE		ſ	081443-009	SW846 3005
	Thallium	0.000884	0.0004	0.001	0.002	ſ	В3, Ј	081443-009	SW846 3005
	Uranium	0.00483	0.00005	0.0002	0.03			081443-009	SW846 3005
	Vanadium	QN	0.002	0.03	NE	n		081443-009	SW846 3005
	Zinc	0.018	0.002	0.01	N	В	В, Ј	081443-009	SW846 3005
Refer to footnotes on page 31.									

### Summary of Tritium, Gross Alpha, Gross Beta, and Gamma Spectroscopy Results Technical Area V Groundwater Monitoring Table TAV D-6

Well ID	Analyte	Activity <sup>a</sup> (pCi/L)	MDA <sup>h</sup> (pCi/L)	Critical Level <sup>b</sup> (pCi/L)	MCL <sup>d</sup> (pCi/L)	Laboratory Qualifier*	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
AVN-1	Tritium	-91.9 ± 108	194	93.6	ЫN	ח		081460-036	EPA 906.0 M
05-Sep-06	Gross Alpha	9.16 ± 2.04	1.32	0.596	15			081460-034	EPA 900.0
	Gross Beta	7.16 ± 2.36	3.23	1.49	4mrem/yr			081460-034	EPA 900.0
	Americium-241	-9.94 ± 12.5	19.8	9.61	ШZ	Э		081460-033	EPA 901.1
	Cesium-137	-0.0761 ± 1.69	2.95	1.40	ЩZ	n		081460-033	EPA 901.1
	Cobalt-60	-0.0647 ± 1.76	3.15	1.46	ЩZ	ס		081460-033	EPA 901.1
	Potassium-40	60.3 ± 23.3	60.3	22.6	ЩZ	<b>ס</b>	P1, UJ	081460-033	EPA 901.1
LWDS-MW1	Tritium	-57.1 ± 109	192	93.0	ЩZ	ח		081470-036	EPA 906.0 M
11-Sep-06	Gross Alpha	14.2 ± 1.98	1.44	0.651	15			081470-034	EPA 900.0
	Gross Beta	1.79 ± 0.970	1.55	0.742	4mrem/yr			081470-034	EPA 900.0
	Americium-241	1.02 ± 8.40	12.5	6.24	ЩZ	ס		081470-033	EPA 901.1
	Cesium-137	-0.326 ± 1.76	2.89	1.44	ЩZ	Э		081470-033	EPA 901.1
	Cobalt-60	0.315 ± 1.84	3.12	1.56	IJ	n		081470-033	EPA 901.1
	Potassium-40	-46.0 ± 41.1	38.4	19.2	ШZ	Э	P1, UJ	081470-033	EPA 901.1
LWDS-MW2	Tritium	-43.6 ± 64.8	122	57.1	ЩZ	n		081451-036	EPA 906.0 M
29-Aug-06	Gross Alpha	15.7 ± 1.92	1.24	0.555	15			081451-034	EPA 900.0
	Gross Beta	4.47 ± 2.72	4.33	2.04	4mrem/yr			081451-034	EPA 900.0
	Americium-241	11.0 ± 8.57	14.1	6.89	ЫN	ח		081451-033	EPA 901.1
	Cesium-137	2.35 ± 2.14	3.14	1.50	ЩZ	ס		081451-033	EPA 901.1
	Cobalt-60	1.18 ± 2.04	3.80	1.78	ЫN	ח		081451-033	EPA 901.1
	Potassium-40	45.0 ± 24.1	47.1	22.4	NE	n		081451-033	EPA 901.1
LWDS-MW2 (Reanalysis)	Gross Alpha	5.42 ± 1.42	1.71	0.795	15			081451-R34	EPA 900.0
29-Aug-06	Gross Beta	6.23 ± 1.51	2.23	1.08	4mrem/yr			081451-R34	EPA 900.0
TAV-MW1	Tritium	-76.3 ± 108	193	93.2	Ŋ	n		081467-036	EPA 906.0 M
07-Sep-06	Gross Alpha	7.36 ± 4.14	4.56	1.60	15			081467-034	EPA 900.0
	Gross Beta	7.85 ± 3.84	5.55	2.48	4mrem/yr			081467-034	EPA 900.0
	Americium-241	$-10.3 \pm 7.30$	11.6	5.81	JN	n		081467-033	EPA 901.1
	Cesium-137	$-0.758 \pm 1.77$	2.83	1.42	JN	n		081467-033	EPA 901.1
	Cobalt-60	$-0.325 \pm 1.82$	2.97	1.49	NE	n		081467-033	EPA 901.1
	Potassium-40	-11.3 ± 34.2	41.0	20.5	Ŋ	<b>ס</b>	P1, UJ	081467-033	EPA 901.1
Refer to footnotes on page 3.	31.								

Summary of Tritium, Gross Alpha, Gross Beta, and Gamma Spectroscopy Results Technical Area V Groundwater Monitoring Table TAV D-6

Analytical Method <sup>9</sup>	EPA 906.0 M	EPA 900.0	EPA 900.0	EPA 901.1	EPA 901.1	EPA 901.1	EPA 901.1	EPA 906.0 M	EPA 900.0	EPA 900.0	EPA 901.1	EPA 901.1	EPA 901.1	EPA 901.1	EPA 906.0 M	EPA 900.0	EPA 900.0	EPA 901.1	EPA 901.1	EPA 901.1	EPA 901.1	EPA 906.0 M	EPA 900.0	EPA 900.0	EPA 901.1	EPA 901.1	EPA 901.1	EPA 901.1	EPA 906.0 M	EPA 900.0	EPA 900.0	EPA 901.1	EPA 901.1	EPA 901.1	EPA 901.1
Sample No.	081447-036	081447-034	081447-034	081447-033	081447-033	081447-033	081447-033	081441-036	081441-034	081441-034	081441-033	081441-033	081441-033	081441-033	081449-036	081449-034	081449-034	081449-033	081449-033	081449-033	081449-033	081465-036	081465-034	081465-034	081465-033	081465-033	081465-033	081465-033	081456-036	081456-034	081456-034	081456-033	081456-033	081456-033	081456-033
Validation Qualifier <sup>f</sup>																																			œ
Laboratory Qualifier	D			Э	Π	Π	Π	Э			⊃	)	Э		Э			Ω	Ω	n	Π	Э			n	n	Э		Э			n	Э	Ω	×
MCL <sup>d</sup> (pCi/L)	NE	15	4mrem/yr	Ŋ	NE	NE	NE	Ŋ	15	4mrem/yr	빙	빙	뮌	빙	빙	15	4mrem/yr	NE	NE	NE	NE	Ŋ	15	4mrem/yr	NE	NE	Ŋ	Ŋ	Ŋ	15	4mrem/yr	NE	빙	빙	N
Critical Level <sup>b</sup>	56.9	0.623	0.612	2.41	1.93	1.99	19.4	56.2	0.630	0.933	2.65	2.10	2.33	22.4	57.2	0.720	1.21	2.08	1.60	1.55	16.1	93.3	0.845	1.89	8.91	1.74	2.09	17.4	93.1	1.23	1.12	6.92	1.38	1.53	13.5
MDA <sup>h</sup> (pCi/L)	121	1.40	1.29	4.96	4.05	4.28	41.8	120	1.42	1.94	5.40	4.37	4.93	47.6	122	1.58	2.48	4.26	3.33	3.32	34.4	193	2.76	4.07	18.2	3.63	4.42	37.1	193	3.54	2.32	14.2	2.88	3.26	28.8
Activity <sup>a</sup> (pCi/L)	16.0 ± 68.9	11.6 ± 2.29	5.39 ± 0.990	1.36 ± 3.15	1.95 ± 2.20	1.66 ± 2.24	23.9 ± 53.7	-18.1 ± 65.6	6.96 ± 1.51	5.78 ± 1.36	0.112 ± 3.07	1.96 ± 2.43	2.47 ± 2.60	57.4 ± 50.4	25.3 ± 69.9	5.73 ± 1.55	4.11 ± 1.56	$0.909 \pm 2.53$	-0.752 ± 1.96	-0.786 ± 1.94	23.1 ± 37.8	-57.3 ± 109	6.98 ± 3.37	$4.13 \pm 2.57$	-0.91 ± 11.1	$-1.04 \pm 2.10$	2.80 ± 2.27	90.9 ± 62.3	-64.8 ± 109	7.99 ± 3.77	4.31 ± 1.49	-1.8 ± 8.08	2.76 ± 2.13	1.43 ± 1.74	54.0 ± 44.9
Analyte	Tritium	Gross Alpha	Gross Beta	Americium-241	Cesium-137	Cobalt-60	Potassium-40	Tritium	Gross Alpha	Gross Beta	Americium-241	Cesium-137	Cobalt-60	Potassium-40	Tritium	Gross Alpha	Gross Beta	Americium-241	Cesium-137	Cobalt-60	Potassium-40	Tritium	Gross Alpha	Gross Beta	Americium-241	Cesium-137	Cobalt-60	Potassium-40	Tritium	Gross Alpha	Gross Beta	Americium-241	Cesium-137	Cobalt-60	Potassium-40
Well ID	TAV-MW2	24-Aug-06						TAV-MW3	21-Aug-06						TAV-MW4	28-Aug-06						TAV-MW5	06-Sep-06						TAV-MW6	31-Aug-06					Potassium-40

ANNUAL GROUNDWATER MONITORING REPORT, FISCAL YEAR 2006

### Summary of Tritium, Gross Alpha, Gross Beta, and Gamma Spectroscopy Results Technical Area V Groundwater Monitoring Table TAV D-6 (Concluded)

Analytical Method <sup>g</sup>	EPA 906.0 M	EPA 900.0	EPA 900.0	EPA 901.1	EPA 901.1	EPA 901.1	EPA 901.1	EPA 906.0 M	EPA 900.0	EPA 900.0	EPA 901.1	EPA 901.1	EPA 901.1	EPA 901.1	EPA 906.0 M	EPA 900.0	EPA 900.0	EPA 901.1	EPA 901.1	EPA 901.1	EPA 901.1
Sample No.	081445-036	081445-034	081445-034	081445-033	081445-033	081445-033	081445-033	081454-036	081454-034	081454-034	081454-033	081454-033	081454-033	081454-033	081443-036	081443-034	081443-034	081443-033	081443-033	081443-033	081443-033
Validation Qualifier <sup>f</sup>																					
Laboratory Qualifier <sup>®</sup>	ס			ח	ח	n	ח	ח			ח	ח	ח	n	n			ח	ח	n	ח
MCL <sup>d</sup> (pCi/L)	₩.	15	4mrem/yr	IJ.	IJ.	IJ.	IJ.	Ŋ	15	4mrem/yr	IJ.	IJ.	IJ.	N N	IJN.	15	4mrem/yr	IJ.	Ш И	N N	NE
Critical Level <sup>b</sup> (pCi/L)	56.8	0.445	0.959	2.06	1.54	1.79	27.8	56.6	1.33	2.10	6.79	1.40	1.62	13.5	57.5	906.0	0.896	7.34	1.67	1.59	13.8
MDA <sup>h</sup> (pCi/L)	121	1.05	1.99	4.23	3.22	3.79	139	121	3.74	4.46	13.9	2.94	3.46	29.2	123	1.95	1.86	15.0	3.47	3.37	29.6
Activity <sup>a</sup> (pCi/L)	16.0 ± 68.8	8.10 ± 1.59	5.42 ± 1.35	-0.584 ± 2.55	-2.19 ± 1.97	1.89 ± 2.02	139 ± 26.8	-2.27 ± 67.2	5.79 ± 3.40	5.97 ± 2.88	-1.65 ± 7.91	$0.640 \pm 3.10$	0.468 ± 1.89	$3.65 \pm 42.7$	-16.2 ± 67.3	6.20 ± 1.76	4.26 ± 1.24	-0.354 ± 9.68	2.48 ± 1.86	-0.562 ± 1.98	2.91 ± 49.2
Analyte	Tritium	Gross Alpha	Gross Beta	Americium-241	Cesium-137	Cobalt-60	Potassium-40	Tritium	Gross Alpha	Gross Beta	Americium-241	Cesium-137	Cobalt-60	Potassium-40	Tritium	Gross Alpha	Gross Beta	Americium-241	Cesium-137	Cobalt-60	Potassium-40
Well ID	TAV-MW7	23-Aug-06						TAV-MW8	30-Aug-06						TAV-MW9	22-Aug-06					

Refer to footnotes on page 31.

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#### Table TAV D-7 Summary of Field Water Quality Measurements<sup>i</sup> Technical Area V Groundwater Monitoring

		-					
Well ID	Sample Date	Temperature (°C)	Specific Conductivity (µmho/cm)	Oxidation Reduction Potential (mV)	Hd	Turbidity (NTU)	Dissolved Oxygen (mg/L)
AVN-1	28-Nov-05	17.91	396	86.8	7.51	2.62	3.75
	02-Feb-06	19.81	379	149.1	7.70	0.31	3.70
	25-May-06	21.72	427	15.1	7.17	0.35	3.87
	05-Sep-06	21.90	399	381.1	7.56	0.75	2.62
AVN-2	17-Nov-05	17.49	425	214.2	7.76	4.20	8.51
	01-Feb-06	14.27	403	263.5	7.73	2.93	8.76
	24-May-06	20.11	426	34.3	7.01	1.53	8.79
LWDS-MW1	01-Dec-05	19.05	206	95.6	7.44	1.83	3.65
	07-Feb-06	17.82	681	149.6	7.47	96.0	4.21
	31-May-06	20.77	752	25.2	7.20	2.01	5.41
	11-Sep-06	20.98	555	270	7.55	06:0	6.12
LWDS-MW2	14-Nov-05	19.53	473	176.9	7.56	3.94	4.38
	30-Jan-06	19.21	456	179.5	7.57	0.47	4.91
	19-May-06	20.25	499	6.3	7.31	0.93	5.01
	29-Aug-06	20.10	465	369.1	7.47	0.61	4.18
TAV-MW1	22-Nov-05	20.18	609	68.5	7.33	62.7	5.15
	16-Mar-06	20.68	585	106.8	7.47	40.2	4.77
	31-May-06	20.17	604	230.2	7.59	5.26	5.06
	07-Sep-06	20.69	460	357.9	7.60	2.84	5.29
TAV-MW2	10-Nov-05	19.66	208	128.7	7.27	1.73	5.05
	26-Jan-06	18.47	029	161.0	7.30	4.42	5.06
	17-May-06	21.33	757	4.4	7.16	1.23	5.30
	24-Aug-06	22.43	705	368.4	7.19	6.63	4.63
TAV-MW3	07-Nov-05	20.97	541	161.2	7.49	2.51	6.84
	24-Jan-06	19.03	478	178.0	7.55	3.33	7.48
	15-May-06	20.38	240	-1.5	7.14	2.95	7.76
	21-Aug-06	21.34	534	366.2	7.41	4.63	09:9
TAV-MW4	11-Nov-05	20.11	486	177.0	7.54	2.50	6.89
	27-Jan-06	18.00	454	219.1	7.59	0.56	5.93
	18-May-06	21.46	522	4.8	7.56	0.76	6.59
	28-Sep-06	22.55	486	364.5	7.46	0.78	4.49
TAV-MW5	29-Nov-05	18.50	473	78.7	7.41	1.48	4.77
	03-Feb-06	19.04	441	160.4	7.59	0.76	5.50
	26-May-06	20.72	509	19.1	7.26	0.62	4.77
	06-Sep-06	22.08	434	312.3	7.49	0.73	4.69
Refer to footnotes on page 31.							

#### Table TAV D-7 (Concluded) Summary of Field Water Quality Measurements<sup>i</sup> Technical Area V Groundwater Monitoring

WellID	Sample Date	Temperature (°C)	Specific Conductivity (umho/cm)	Oxidation Reduction Potential (mV)	Hd	Turbidity (NTU)	Dissolved Oxygen (mg/L)
TAV-MW6	16-Nov-05	18.17	, 603	71.5	7.74	0.74	6.17
	10-Feb-06	18.85	613	183.7	7.49	1.40	4.62
	26-May-06	21.01	614	240.1	7.44	0.43	5.96
	31-Aug-06	20.44	616	388.8	7.33	0.59	5.75
TAV-MW7	09-Nov-05	19.88	578	51.8	7.63	0.43	0.34
INI	27-Jan-06	18.41	579	8.0	7.40	0.70	0.29
	25-May-06	21.86	579	119.2	7.40	0.47	0.34
	23-Aug-06	21.44	584	303.2	7.28	1.65	0.39
TAV-MW8	29-Nov-05	18.73	539	130.5	7.55	7.28	3.79
	31-Jan-06	19.52	509	105.1	7.53	2.59	4.96
<b>DW</b>	16-May-06	20.87	584	1.7	7.23	1.77	6.81
	30-Aug-06	22.01	549	382.9	7.40	96:0	5.40
TAV-MW9	08-Nov-05	20.19	578	38.1	7.26	2.61	2.41
	25-Jan-06	19.31	528	61.7	7.29	1.26	1.72
	22-May-06	21.62	629	4.1	7.44	1.55	1.92
	22-Aug-06	21.31	523	205.3	7.21	7.28	1.04

#### Footnotes for TA-V Groundwater Monitoring

#### <sup>a</sup>Result and/or Activity

- Values in bold exceed the established MCL.
- ND = not detected (at method detection limit).
- Activities of zero or less are considered to be not detected.
- μg/L = micrograms per liter
- mg/L = milligrams per liter
- pCi/L = picocuries per liter

#### <sup>b</sup>MDL or Critical level

Method detection limit. The minimum concentration or activity that can be measured and reported with 99% confidence that the analyte is greater than zero, analyte is matrix specific.

- N/A = not applicable

#### <sup>c</sup>PQL

Practical quantitation limit. The lowest concentration of analytes in a sample that can be reliably determined within specified limits of precision and accuracy by that indicated method under routine laboratory operating conditions.

- N/A = not applicable

#### dMCL

MCL = Maximum contaminant level. Established by the U.S. Environmental Protection Agency Primary Water Regulations (40 CFR 141.11(b)), and subsequent amendments or the New Mexico Environmental Improvement Board in Title 20, Chapter 7, Part 1 of the New Mexico Administrative Code (20 NMAC 7.1). NE = not established.

The following are the MCLs for gross alpha particles and beta particles in community water systems: 15 pCi/L = Gross alpha particle activity (including radium-226 but excluding radion and total uranium). 4 mrem/yr = any combination of beta and/or gamma emitting radionuclides (as dose rate).

#### <sup>e</sup>Lab Qualifier

- B = Analyte is detected in associated laboratory method blank.
- J = Amount detected is below the practical quantitation limit (PQL).
- U = Analyte is absent or below the method detection limit.
- X = Data rejected due to low abundance.
- None = No qualifiers for field analysis.

#### Validation Qualifier

If cell is blank, then all quality control samples met acceptance criteria with respect to submitted samples.

- A2 = Laboratory accuracy and/or bias measurements for the matrix spike and/or matrix spike duplicate samples do not acceptance criteria.
- B = Analyte present in associated laboratory method blank.
- B1 = Analyte present in associated trip blank sample.
- B2 = Analyte present in associated equipment blank sample.
- B3 = Analyte present in associated continuing calibration blank.
- J = Associate value is an estimated quantity.
- P1 =Laboratory precision measurements for the matrix spike and matrix spike duplicate do not meet acceptance criteria.
- R = The data are unusable for their intended purpose. The analyte may or may not be present.
- UJ = Analyte not detected above laboratory method detection limit, but associated value is an estimate and may be inaccurate or imprecise.
- #U = Analyte was qualified as not detected at listed value.

None = Data was not validated.

APPENDICES D-31

#### Footnotes for **TA-V Groundwater Monitoring** (Concluded)

#### <sup>g</sup>Analytical Method

U.S. Environmental Protection Agency, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846. 3rd ed.

U.S. Environmental Protection Agency, 1983, "The Determination of Inorganic Anions in Water by Ion Chromatography-Method 300.0,"

EPA-600/4-84-017.

Analytical method used to detect radionuclides is HASL 300 4.5.2.3;

U.S. Department of Energy, Environmental Measurements Laboratory, 1997, "EML Procedures Manual," 27th ed., Vol. 1, Rev. 1992, HASL-300.

EPA 903.0/904.0: U.S. Environmental Protection Agency, 1980, "Prescribed Procedures for Measurement of Radioactivity in Drinking Water," EPA-600/4-80-032.

#### **hMDA**

The minimal detectable activity or minimum measured activity in a sample required to ensure a 95% probability that the measured activity is accurately quantified above the critical level.

#### Field Water Quality Measurements

Field measurements collected prior to sampling.

°C = degrees Celsius % Sat = percent Saturation

µmho/cm = micromhos per centimeter

mg/L = milligrams per liter

mV = millivolts

NTU = nephelometric turbidity units

pH = potential of hydrogen (negative logarithm of the hydrogen ion concentration)

#### APPENDIX E

Tijeras Arroyo Groundwater Monitoring Surveillance Task

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TAG-E2	Method Detection Limit for Volatile Organic Compounds and Polychlorinated Biphenyls, Tijeras Arroyo Groundwater Investigation, Fiscal Year 2006
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TAG-E6	Summary of Tritium, Gross Alpha, Gross Beta, And Gamma Spectroscopy Results, Tijeras Arroyo Groundwater Investigation, Fiscal Year 2006
TAG-E7	Summary of Field Water Quality Measurements <sup>i</sup> , Tijeras Arroyo Groundwater Investigation, Fiscal Year 2006
Footnotes for	Tijeras Arroyo Groundwater Investigation E-45



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Summary of Detected Volatile Organic Compounds and Polychlorinated Biphenyls Tijeras Arroyo Groundwater Investigation Table TAG E-1

Well ID         Analyte         Result         MDL         Cugit         MCL         Laboratory         Validation         Analyte         Analyte           TA24-V55         Intrinocelene         607         0.25         1.0         7.0         3         7.225-1.001         Sweet-6.280           1A-04-05         Intrinocelene         6.07         0.25         1.0         7.0         3         7.0         3         7.0         3         7.0         3         7.0         3         7.0         3         7.0         3         7.0         3         7.0         3         7.0         3         7.0         3         7.0         7.0         3         7.0         7.0         3         7.0         3         7.0         7.0         3         7.0         7.0         3         7.0										
Trichiocoethene   6.07   0.25   1.0   1.	WellID	Analyte	Result <sup>a</sup> (µg/L)	MDL <sup>b</sup> (µg/L)	PQL° (µg/L)	MCL⁴ (µg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
Chicacheme   0.846   0.30   1.0	TA2-W-19	Trichloroethene	5.07	0.25	1.0	5.0			072281-001	SW846-8260
Cholicodom         0.286         0.28         10         NE         J         O72272-001           Planchorehene         1.11         0.25         1.0         5.0         J         J         072272-001           Carbon Disulfide         1.21         0.25         1.0         5.0         J         072272-001           Carbon Disulfide         1.21         0.25         1.0         NE         J         072272-001           Carbon Disulfide         0.224         0.25         1.0         NE         J         072272-001           Tichlorehene         1.07         0.25         1.0         5.0         J         072273-001           Tichlorehene         1.07         0.25         1.0         5.0         J         072273-001           Tichlorehene         0.371         0.25         1.0         5.0         J         072273-001           Tichlorehene         0.371         0.30         1.0         7.0         J         J         072273-001           Tichlorehene         0.364         0.30         1.0         7.0         J         J         072273-001           Tichlorehene         0.364         0.30         1.0         7.0         J <t< td=""><td>31-Oct-05</td><td>cis-1,2-Dichloroethene</td><td>0.846</td><td>0.30</td><td>1.0</td><td>70</td><td>٦</td><td></td><td>072281-001</td><td>SW846-8260</td></t<>	31-Oct-05	cis-1,2-Dichloroethene	0.846	0.30	1.0	70	٦		072281-001	SW846-8260
Trichlocoethene		Chloroform	0.286	0.25	1.0	NE	ſ		072272-001	SW846-8260
Trichiocoethene   1,21   0,25   1,0   1,	TA2-W-26	Tetrachloroethene	1.17	0.25	1.0	5.0		ſ	072272-001	SW846-8260
Cist 12-Dichloroethene         0.423         0.30         1.0         7.0         J         072273-001           Carborn Disilifide         1.41         1.25         5.0         NE         J         072273-001           Carborn Disilifide         1.17         0.25         1.0         5.0         J         072273-001           Trichloroethene         0.390         0.25         1.0         5.0         J         072273-001           Introlloroethene         0.390         0.30         1.0         NE         J         072273-001           Introlloroethene         0.390         0.30         1.0         NE         J         072273-001           Introlloroethene         0.381         0.25         1.0         NE         J         072273-001           Introlloroethene         0.381         0.30         1.0         NE         J         072273-001           Introlloroethene         0.3851         0.30         1.0         NE         J         072273-001           Introlloroethene         1.75         0.30         1.0         NE         J         072273-001           Introlloroethene         1.75         0.30         1.0         NE         J         072370-001	25-Oct-05	Trichloroethene	1.21	0.25	1.0	5.0			072272-001	SW846-8260
Carbon Disulfide         1,41         1,25         5.0         NE         J         072273-001           Tentablorotene         1,17         0.25         1,0         5.0         J         J         072273-001           Tentablorotene         1,17         0.25         1,0         5.0         J         J         072273-001           1 centablorotene         1,08         0.25         1,0         5.0         J         J         072273-001           1 centablorotene         0.390         0.30         1,0         70         J         D         072273-001           1 centablorotene         0.390         0.30         1,0         70         J         D         072273-001           1 centablorotene         0.666         0.30         1,0         70         J         D         072273-001           1 centablorotene         0.684         0.30         1,0         70         J         D         072273-001           1 centablorotene         0.684         0.30         1,0         70         J         D         072273-001           1 centablorotene         0.684         0.30         1,0         70         J         D         072277-001           <		cis-1,2-Dichloroethene	0.423	0.30	1.0	70	7		072272-001	SW846-8260
Chloroform   0.284   0.25   1.0   NE   J   0.72273-001   1.17   0.25   1.0   0.50   1.0   0.50   1.0   0.50   0.20273-001   1.17   0.25   1.0   0.50   0.3		Carbon Disulfide	1.41	1.25	5.0	NE	٦		072273-001	SW846-8260
Trichloroethene	:	Chloroform	0.284	0.25	1.0	ЫN	7		072273-001	SW846-8260
Trichloroethene         1.08         0.25         1.0         5.0         072273-001           cis-1.2-Dichloroethene         0.390         0.30         1.0         70         J         072273-001           cis-1.2-Dichloroethene         0.571         0.30         1.0         70         J         072273-001           cis-1.2-Dichloroethene         0.686         0.30         1.0         70         J         072273-001           cis-1.2-Dichloroethene         0.686         0.30         1.0         70         J         072273-001           1.1-Dichloroethene         0.686         0.30         1.0         70         J         072277-001           1.1-Dichloroethene         0.681         0.30         1.0         NE         J         072277-001           dis-1.2-Dichloroethene         1.72         0.30         1.0         70         J         072277-001           Actione         4.24         1.25         5.0         NE         B, J         5.0U, B         073277-001           dis-1.2-Dichloroethene         4.73         0.25         1.0         5.0         J         073708-001           dis-1.2-Dichloroethene         0.877         0.30         1.0         5.0 <td< td=""><td>I A2-W-26 (Duplicate)</td><td>Tetrachloroethene</td><td>1.17</td><td>0.25</td><td>1.0</td><td>5.0</td><td></td><td>7</td><td>072273-001</td><td>SW846-8260</td></td<>	I A2-W-26 (Duplicate)	Tetrachloroethene	1.17	0.25	1.0	5.0		7	072273-001	SW846-8260
cis-12-Dichloroethene         0.380         0.30         1.0         70         J         O72273-001           11-Dichloroethane         0.571         0.30         1.0         NE         J         072279-001           11-Dichloroethane         0.571         0.25         1.0         7.0         J         072279-001           11-Dichloroethane         0.864         0.30         1.0         7.0         J         072279-001           11-Dichloroethane         0.864         0.30         1.0         NE         J         07227-001           11-Dichloroethane         0.861         0.30         1.0         NE         J         07227-001           11-Dichloroethane         0.861         0.30         1.0         70         J         07227-001           11-Dichloroethane         1.72         0.30         1.0         70         J         07227-001           Acatone         1.56         0.25         1.0         5.0         NE         B, J         5.0U, B         073270-001           Irichloroethane         1.56         0.25         1.0         5.0         J         073708-001           Irichloroethane         4.81         0.25         1.0         J <td< td=""><td></td><td>Trichloroethene</td><td>1.08</td><td>0.25</td><td>1.0</td><td>5.0</td><td></td><td></td><td>072273-001</td><td>SW846-8260</td></td<>		Trichloroethene	1.08	0.25	1.0	5.0			072273-001	SW846-8260
1.1-Dichloroethane         0.571         0.30         1.0         NE         J         O72279-001           Trichloroethane         3.31         0.25         1.0         5.0         J         072279-001           1.1-Dichloroethane         0.866         0.30         1.0         7.0         J         072279-001           1.1-Dichloroethane         0.864         0.30         1.0         NE         J         072277-001           1.1-Dichloroethane         0.861         0.25         1.0         NE         J         072277-001           1.1-Dichloroethane         0.861         0.25         1.0         NE         J         072277-001           1.1-Dichloroethane         1.72         0.30         1.0         NE         J         072277-001           1.1-Dichloroethane         1.72         0.30         1.0         NE         B, J         5.0U, B         072277-001           1.1-Dichloroethane         1.72         0.25         1.0         NE         B, J         5.0U, B         073708-001           1.1-Dichloroethane         1.56         0.25         1.0         5.0         D         073708-001           1.1-Dichloroethane         4.81         1.25         5.0		cis-1,2-Dichloroethene	0.390	0.30	1.0	70	7		072273-001	SW846-8260
Trichloroethene         3.31         0.25         1.0         5.0         9         072279-001           cis-1,2-Dichloroethene         0.866         0.30         1.0         7.0         J         072279-001           1,1-Dichloroethene         0.864         0.30         1.0         7.0         J         07227-001           1,1-Dichloroethene         0.864         0.30         1.0         5.0         D         07227-001           1,1-Dichloroethene         7.61         0.25         1.0         5.0         D         072277-001           1,1-Dichloroethene         7.72         0.30         1.0         5.0         D         072277-001           Acetone         1.72         0.30         1.0         5.0         D         072277-001           Trichloroethene         1.56         0.25         1.0         5.0         D         072277-001           Trichloroethene         4.73         0.25         1.0         5.0         D         073708-001           Trichloroethene         0.872         0.30         1.0         5.0         D         073708-001           Trichloroethene         0.872         0.30         1.0         5.0         D         073708-001     <		1,1-Dichloroethane	0.571	0.30	1.0	ШZ	7		072279-001	SW846-8260
cis-12-Dichloroethene         0.666         0.30         1.0         70         J         O72279-001           1.1-Dichloroethene         0.864         0.30         1.0         7.0         J         07227-001           1.1-Dichloroethene         0.861         0.30         1.0         NE         J         072277-001           1.1-Dichloroethene         7.61         0.25         1.0         5.0         072277-001           dis-1.2-Dichloroethene         1.72         0.30         1.0         NE         B, J         5.0U, B         073277-001           Trichloroethene         4.24         1.25         5.0         NE         B, J         5.0U, B         073708-001           Trichloroethene         4.73         0.25         1.0         5.0         J         073708-001           Sis-1,2-Dichloroethene         0.877         0.30         1.0         5.0         J         073708-001           Trichloroethene         4.44         1.25         5.0         NE         J         5.0U, B1         073708-001           Garbon Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Chloroform         0.364         0.25 </td <td>TJA-2</td> <td>Trichloroethene</td> <td>3.31</td> <td>0.25</td> <td>1.0</td> <td>5.0</td> <td></td> <td></td> <td>072279-001</td> <td>SW846-8260</td>	TJA-2	Trichloroethene	3.31	0.25	1.0	5.0			072279-001	SW846-8260
1.1-Dichloroethene         0.964         0.30         1.0         7.0         J         072277-001           1.1-Dichloroethane         0.861         0.30         1.0         NE         J         072277-001           Trichloroethane         7.61         0.25         1.0         5.0         NE         J         072277-001           Trichloroethane         1.72         0.30         1.0         NE         B, J         5.0U, B         073689-001           Trichloroethane         4.24         1.25         5.0         NE         B, J         5.0U, B         073709-001           Trichloroethane         4.73         0.25         1.0         5.0         J         073709-001           Trichloroethane         4.81         0.25         1.0         5.0         J         073709-001           Trichloroethane         4.84         1.25         5.0         NE         J         5.0U, B1         073709-001           Carbon Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Carbon Disulfide         4.44         1.25         5.0         J         5.0U, B1         073702-001           Trichloroethane         1.	00-100-02	cis-1,2-Dichloroethene	0.666	0.30	1.0	70	7		072279-001	SW846-8260
1.1-Dichloroethane         0.851         0.30         1.0         NE         J         OTZZT7-001           Trichloroethene         7.61         0.25         1.0         5.0         0.0         072277-001           Trichloroethene         1.72         0.30         1.0         5.0         B, J         5.0U, B         073700-001           Trichloroethene         1.56         0.25         1.0         5.0         B, J         5.0U, B         073708-001           Trichloroethene         4.73         0.25         1.0         5.0         J         073708-001           Trichloroethene         0.972         0.30         1.0         70         J         073708-001           Trichloroethene         0.887         0.25         1.0         5.0         J         073708-001           Trichloroethene         0.887         0.30         1.0         70         J         073708-001           Chloroform         0.364         0.25         1.0         5.0         J         073702-001           Tetrachloroethene         0.364         0.25         1.0         5.0         J         073702-001           Trichloroethene         0.345         0.25         1.0         5.0	7. ∆-7	1,1-Dichloroethene	0.964	0.30	1.0	7.0	7		072286-001	SW846-8260
Trichloroethene         7.61         0.25         1.0         5.0         9.0         072277-001           Actone         1.72         0.30         1.0         70         NE         B, J         5.0U, B         072277-001           Actone         4.24         1.25         5.0         NE         B, J         5.0U, B         073708-001           Trichloroethene         4.73         0.25         1.0         5.0         J         073708-001           Dis-1.2-Dichloroethene         0.972         0.30         1.0         70         J         073708-001           Trichloroethene         0.364         0.25         1.0         NE         J         5.0U, B1         073702-001           Carbon Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Carbon Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Charchloroethene         1.27         0.25         1.0         5.0         J         073702-001         073702-001           Chloroform         0.344         0.25         1.0         NE         J         073898-001         073898-001	03-Nov-05	1,1-Dichloroethane	0.851	0.30	1.0	ШZ	7		072277-001	SW846-8260
dis-1,2-Dichloroethene         1.72         0.30         1.0         70         NE         B, J         5.0U, B         072277-001           Acetone         4.24         1.25         5.0         NE         B, J         5.0U, B         073708-001           Trichloroethene         4.73         0.25         1.0         5.0         J         073708-001           Dis-1,2-Dichloroethene         4.81         0.25         1.0         5.0         J         073708-001           Trichloroethene         4.81         0.25         1.0         5.0         J         073708-001           Claron Disulfide         4.81         0.25         1.0         NE         J         5.0U, B1         073702-001           Claron Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Clarochoroethene         1.37         0.25         1.0         5.0         J         073702-001           Trichloroethene         0.555         0.30         1.0         5.0         J         073808-001           Chloroform         0.51         1.0         5.0         J         0.0         073808-001           Trichloroethene         0.255	WYO-4	Trichloroethene	7.61	0.25	1.0	5.0			072277-001	SW846-8260
Acetone         4.24         1.25         5.0         NE         B, J         5.0U, B         073769-001           Trichloroethene         4.73         0.25         1.0         5.0         J         073709-001           Trichloroethene         4.73         0.25         1.0         5.0         J         073709-001           Trichloroethene         0.972         0.30         1.0         70         J         073709-001           Trichloroethene         0.887         0.30         1.0         70         J         073709-001           Carbon Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Carbon Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Carbon Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Tetrachloroethene         1.27         0.25         1.0         5.0         J         073702-001           Trichloroethene         0.655         0.30         1.0         70         J         073898-001           Trichloroethene         0.617         0.25	27-Oct-05	cis-1,2-Dichloroethene	1.72	0:30	1.0	70			072277-001	SW846-8260
Acetone         4.24         1.25         5.0         NE         B, J         5.0U, B         073700-001           Trichloroethene         1.56         0.25         1.0         5.0         N         073708-001           Trichloroethene         4.73         0.25         1.0         5.0         J         073708-001           Trichloroethene         0.972         0.30         1.0         70         J         073708-001           Trichloroethene         0.887         0.30         1.0         70         J         073708-001           Carbon Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Carbon Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Carbon Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Tetrachloroethene         1.27         0.25         1.0         5.0         J         073702-001           Tichloroethene         0.675         0.30         1.0         5.0         J         073702-001           Tichloroethene         0.617         0.25         <										
Trichloroethene         4.73         0.25         1.0         5.0         9         073708-001           Trichloroethene         4.73         0.25         1.0         5.0         J         073708-001           cis-1,2-Dichloroethene         0.972         0.30         1.0         70         J         073708-001           dis-1,2-Dichloroethene         0.887         0.30         1.0         70         J         073709-001           cis-1,2-Dichloroethene         0.887         0.30         1.0         NE         J         073709-001           Carbon Disulfide         4.44         1.25         5.0         NE         J         073702-001           Carbon Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Chloroform         0.364         0.25         1.0         NE         J         5.0U, B1         073702-001           Trichloroethene         0.555         0.30         1.0         5.0         J         073702-001           Chloroform         0.617         0.25         1.0         ME         J         073808-001           Intrachloroethene         0.617         0.25         1.0         D	TA2-SW1-320 23-Jan-06	Acetone	4.24	1.25	5.0	N E	В, Л		073689-001	SW846-8260
Trichloroethene         4.73         0.25         1.0         5.0         J         073708-001           cis-1,2-Dichloroethene         0.972         0.30         1.0         70         J         073708-001           Trichloroethene         4.81         0.25         1.0         5.0         J         073709-001           cis-1,2-Dichloroethene         0.887         0.30         1.0         NE         J         5.0U, B1         073702-001           Carbon Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Chloroform         0.364         0.25         1.0         NE         J         5.0U, B1         073702-001           Trichloroethene         1.27         0.25         1.0         5.0         J         073702-001           Chloroform         0.525         0.30         1.0         70         J         073702-001           Chloroform         0.344         0.25         1.0         5.0         J         073898-001           Tetrachloroethene         0.617         0.25         1.0         5.0         J         073898-001	TA2-W-01 06-Jan-06	Trichloroethene	1.56	0.25	1.0	5.0			073700-001	SW846-8260
dis-1,2-Dichloroethene         0.972         0.30         1.0         70         J         073708-001           Trichloroethene         4.81         0.25         1.0         5.0         J         0.3709-001         073709-001           dis-1,2-Dichloroethene         0.887         0.30         1.0         70         J         5.0U, B1         073702-001           Carbon Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Chloroform         0.364         0.25         1.0         5.0         NE         J         5.0U, B1         073702-001           Trichloroethene         1.27         0.25         1.0         5.0         J         073702-001           Trichloroethene         0.525         0.30         1.0         NE         J         073702-001           Chloroform         0.344         0.25         1.0         NE         J         073698-001           Tetrachloroethene         0.617         0.25         1.0         5.0         J         073698-001           Trichloroethene         0.672         0.25         1.0         5.0         J         073698-001	TA2-W-19	Trichloroethene	4.73	0.25	1.0	5.0			073708-001	SW846-8260
Trichloroethene         4.81         0.25         1.0         5.0         J         073709-001           cis-1,2-Dichloroethene         0.887         0.30         1.0         70         J         0.3709-001           Carbon Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Chloroform         0.364         0.25         1.0         5.0         N         073702-001           Tetrachloroethene         1.27         0.25         1.0         5.0         N         073702-001           Trichloroethene         0.525         0.30         1.0         N         D         073702-001           Chloroform         0.344         0.25         1.0         N         D         073698-001           Tetrachloroethene         0.617         0.25         1.0         5.0         J         073698-001           Trichloroethene         0.617         0.25         1.0         5.0         J         073698-001	16-Jan-06	cis-1,2-Dichloroethene	0.972	0.30	1.0	70	ſ		073708-001	SW846-8260
cis-1,2-Dichloroethene         0.887         0.30         1.0         70         J         5.0U, B1         073709-001           Carbon Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Chloroform         0.364         0.25         1.0         NE         J         073702-001           Tetrachloroethene         1.27         0.25         1.0         5.0         J         073702-001           Trichloroethene         0.525         0.30         1.0         NE         J         073698-001           Chloroform         0.617         0.25         1.0         5.0         J         073698-001           Trichloroethene         0.617         0.25         1.0         5.0         J         073698-001	TA2-W-19 (Duplicate)	Trichloroethene	4.81	0.25	1.0	5.0			073709-001	SW846-8260
Carbon Disulfide         4.44         1.25         5.0         NE         J         5.0U, B1         073702-001           Chloroform         0.364         0.25         1.0         NE         J         0.73702-001           Tetrachloroethene         1.27         0.25         1.0         5.0         J         073702-001           Trichloroethene         0.525         0.30         1.0         70         J         073702-001           Chloroform         0.344         0.25         1.0         NE         J         073698-001           Tetrachloroethene         0.617         0.25         1.0         5.0         J         073698-001           Trichloroethene         0.592         0.25         1.0         5.0         J         073698-001	16-Jan-06	cis-1,2-Dichloroethene	0.887	0.30	1.0	20	٦		073709-001	SW846-8260
Chloroform         0.364         0.25         1.0         NE         J         073702-001           Tetrachloroethene         1.27         0.25         1.0         5.0         N         073702-001           Trichloroethene         0.525         0.30         1.0         70         J         073702-001           Chloroform         0.344         0.25         1.0         NE         J         073698-001           Tetrachloroethene         0.617         0.25         1.0         5.0         J         073698-001           Trichloroethene         0.592         0.25         1.0         5.0         J         073698-001		Carbon Disulfide	4.44	1.25	5.0	NE	ſ		073702-001	SW846-8260
Tetrachloroethene         1.27         0.25         1.0         5.0         9         073702-001           Trichloroethene         1.34         0.25         1.0         5.0         J         073702-001           cis-1,2-Dichloroethene         0.525         0.30         1.0         NE         J         073698-001           Chloroform         0.344         0.25         1.0         NE         J         073698-001           Tetrachloroethene         0.617         0.25         1.0         5.0         J         073698-001           Trichloroethene         0.592         0.25         1.0         5.0         J         073698-001		Chloroform	0.364	0.25	1.0	N	7		073702-001	SW846-8260
Trichloroethene         1.34         0.25         1.0         5.0         J         073702-001           cis-1,2-Dichloroethene         0.525         0.30         1.0         70         J         073702-001           Chloroform         0.344         0.25         1.0         NE         J         073698-001           Tetrachloroethene         0.617         0.25         1.0         5.0         J         073698-001           Trichloroethene         0.592         0.25         1.0         5.0         J         073698-001	1AZ-W-26 09-1an-06	Tetrachloroethene	1.27	0.25	1.0	5.0			073702-001	SW846-8260
cis-1,2-Dichloroethene         0.525         0.30         1.0         70         J         073702-001           Chloroform         0.344         0.25         1.0         NE         J         073698-001           Tetrachloroethene         0.617         0.25         1.0         5.0         J         073698-001           Trichloroethene         0.592         0.25         1.0         5.0         J         073698-001		Trichloroethene	1.34	0.25	1.0	5.0			073702-001	SW846-8260
Chloroform         0.344         0.25         1.0         NE         J         073698-001           Tetrachloroethene         0.617         0.25         1.0         5.0         J         073698-001           Trichloroethene         0.592         0.25         1.0         5.0         J         073698-001		cis-1,2-Dichloroethene	0.525	0.30	1.0	70	7		073702-001	SW846-8260
Tetrachloroethene         0.617         0.25         1.0         5.0         J         073698-001           Trichloroethene         0.592         0.25         1.0         5.0         J         073698-001	11	Chloroform	0.344	0.25	1.0	NE	ſ		073698-001	SW846-8260
Trichloroethene 0.592 0.25 1.0 5.0 J 073698-001	1AZ-W-Z/ 05lan-06	Tetrachloroethene	0.617	0.25	1.0	5.0	ſ		073698-001	SW846-8260
		Trichloroethene	0.592	0.25	1.0	5.0	7		073698-001	SW846-8260

Summary of Detected Volatile Organic Compounds and Polychlorinated Biphenyls Tijeras Arroyo Groundwater Investigation Table TAG E-1

Well ID	Analyte	Result <sup>a</sup> (ua/L)	MDL <sup>b</sup> (ua/L)	PQL° (ua/L)	MCL <sup>d</sup> (µa/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
TJA-2	1,1-Dichloroethane	0.541	0.30	1.0	NE	7		073706-001	
13-Jan-06	Trichloroethene	3.37	0.25	1.0	5.0			073706-001	
	cis-1,2-Dichloroethene	0.483	0.30	1.0	20	7		073706-001	
TJA-3 04-Jan-06	Trichloroethene	1.54	0.25	1.0	5.0			073696-001	
TJA-4 17-Jan-06	Carbon Disulfide	3.29	1.25	5.0	IJN.	7	5.0U, B1	073711-001	
WYO-4	1,1-Dichloroethane	0.869	0:30	1.0	ШZ	7		073704-001	
12-Jan-06	Trichloroethene	7.85	0.25	1.0	5.0			073704-001	
	cis-1,2-Dichloroethene	1.66	0:30	1.0	70			073704-001	
TA2-SW1-320	Acetone	2.65	1.25	5.0	N N	7	11.30	077284-001	
26-Apr-06	Carbon Disulfide	2.91	1.25	5.0	Ш	7	7	077284-001	
TA2-SW1-320 (Duplicate) Acetone	) Acetone	2.41	1.25	5.0	NE	ר	11.3U	077285-001	
26-Apr-06	Carbon Disulfide	3.33	1.25	5.0	JN	ר	ſ	077285-001	
TA2-W-19	1,1-Dichloroethane	0.604	0.30	1.0	Ш	٦		077295-001	
03-May-06	Acetone	4.18	1.25	5.0	NE	7	11.3UJ	077295-001	
	Trichloroethene	4.51	0.25	1.0	2.0			077295-001	
	cis-1,2-Dichloroethene	909.0	0.30	1.0	0.2	7		077295-001	
TA2-W-26	Acetone	2.33	1.25	5.0	NE	ſ	11.3U	077287-001	
27-Apr-06	Carbon Disulfide	1.52	1.25	5.0	∃N	ſ	ſ	077287-001	
	Chloroform	0.358	0.25	1.0	ΒN	ſ		077287-001	
	Tetrachloroethene	1.48	0.25	1.0	5.0			077287-001	
	Trichloroethene	1.44	0.25	1.0	5.0			077287-001	
	cis-1,2-Dichloroethene	0.488	0.30	1.0	70	ר		077287-001	
TJA-2	1,1-Dichloroethane	0.520	0.30	1.0	NE	ſ		077293-001	
28-Apr-06	Acetone	1.77	1.25	2.0	∃N	ſ	11.3UJ	077293-001	
	Trichloroethene	2.96	0.25	1.0	2.0			077293-001	
	cis-1,2-Dichloroethene	0.571	0.30	1.0	20	٦		077293-001	
TJA-4 04-Mav-06	Acetone	5.95	1.25	5.0	N		11.300	077297-001	
TJA-7	Acetone	5.05	1.25	5.0	N N		5.05UJ, B1	077300-001	
09-May-06	Trichloroethene	0.315	0.25	1.0	5.0	l l		077300-001	
WYO-4	1,1-Dichloroethane	0.865	0.30	1.0	ЫN	٦		077289-001	
02-May-06	Trichloroethene	6.73	0.25	1.0	5.0			077289-001	
	cis-1,2-Dichloroethene	1.51	0:30	1.0	70			077289-001	
Refer to footnotes on page 45									

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Summary of Detected Volatile Organic Compounds and Polychlorinated Biphenyls Tijeras Arroyo Groundwater Investigation Table TAG E-1

Well ID	Analyte	Result <sup>a</sup> (µg/L)	MDL <sup>b</sup> (µg/L)	PQL° (µg/L)	MCL <sup>d</sup> (µg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
PGS-2 06-Jul-06	Acetone	3.43	1.25	5.0	NE	٦	5.0U, B1	079777-001	SW846-8260
TA1-W-01 03-Aug-06	Methylene Chloride	2.93	2.0	5.0	5.0	٦	5.0U, B1	079812-001	SW846-8260
TA1-W-02 15-Aug-06	Acetone	3.43	1.25	5.0	ЯN	7	5.0U, B1	079779-001	SW846-8260
TA1-W-03 26-Jul-06	Chloroform	0.394	0.25	1.0	NE	٦		079803-001	SW846-8260
TA1-W-04 20-Jul-06	Toluene	0.358	0.25	1.0	1,000	٦	1.0U, B1	079792-001	SW846-8260
TA1-W-05	Acetone	2.69	1.25	5.0	NE	٦		079782-001	SW846-8260
11-Jul-06	Toluene	0.347	0.25	1.0	1,000	7		079782-001	SW846-8260
TA1-W-06	Acetone	2.66	1.25	5.0	NE	٦	5.0U, B1	079796-001	SW846-8260
10-Jul-06	Chloroform	0.333	0.25	1.0	NE	ſ	1.00	079796-001	SW846-8260
	Toluene	0.391	0.25	1.0	1,000	ľ	1.0U, B1	079796-001	SW846-8260
	Trichloroethene	0.291	0.25	1.0	5.0	ſ	1.0U	100-962620	SW846-8260
	1,1-Dichloroethene	209.0	0:30	1.0	0.7	ſ	1.0U	100-962620	SW846-8260
TA2-NW1-595	Acetone	3.80	1.25	5.0	NE	٦	5.0U, B1	079788-001	SW846-8260
13-Jul-06	Chloroform	0.258	0.25	1.0	JN	ſ		100-882-001	SW846-8260
	Toluene	0.325	0.25	1.0	1,000	٦	1.0U, B1	079788-001	SW846-8260
TA2-SW1-320 05-Jul-06	Acetone	3.64	1.25	5.0	NE	J	5.0U, B1	079775-001	SW846-8260
TA2-W-01 25-Jul-06	Trichloroethene	1.58	0.25	1.0	5.0			079801-001	SW846-8260
TA2-W-19	1,1-Dichloroethane	0.593	0:30	1.0	Ŋ	7		079816-001	SW846-8260
08-Aug-06	Trichloroethene	4.73	0.25	1.0	5.0			079816-001	SW846-8260
	cis-1,2- Dichloroethene	0.678	0:30	1.0	70	7		079816-001	SW846-8260
TA2-W-26	Carbon Disulfide	1.34	1.25	5.0	NE	Ŋ	J	079810-001	SW846-8260
02-Aug-06	Chloroform	0.424	0.25	1.0	NE	J		079810-001	SW846-8260
	Tetrachloroethene	1.45	0.25	1.0	5.0			079810-001	SW846-8260
	Toluene	0.262	0.25	1.0	1,000	ſ		079810-001	SW846-8260
	Trichloroethene	1.73	0.25	1.0	5.0			079810-001	SW846-8260
	cis-1,2- Dichloroethene	0.611	0:30	1.0	70	7		079810-001	SW846-8260
TA2-W-27	Acetone	2.79	1.25	5.0	NE	ſ		079790-001	SW846-8260
17-Jul-06	Chloroform	0.304	0.25	1.0	NE	٦		079790-001	SW846-8260
	Tetrachloroethene	0.599	0.25	1.0	5.0	٦		079790-001	SW846-8260
	Toluene	0.339	0.25	1.0	1,000	٦	1.0U, B1	079790-001	SW846-8260
Transfer to footnotes on more d	Trichloroethene	0.637	0.25	1.0	5.0	٦		079790-001	SW846-8260
herer to roomotes on page	÷5.								

### Summary of Detected Volatile Organic Compounds and Polychlorinated Biphenyls Tijeras Arroyo Groundwater Investigation Table TAG E-1 (Concluded)

#### Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (µg/L)	MDL <sup>b</sup> (µg/L)	PQL° (µg/L)	MCL <sup>d</sup> (µg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
TJA-2	1,1-Dichloroethane	0.497	0:30	1.0	NE	٢		079814-001	SW846-8260
07-Aug-06	Acetone	2.14	1.25	5.0	빙	7	5.0UJ, B1	079814-001	SW846-8260
	Trichloroethene	3.24	0.25	1.0	5.0			079814-001	SW846-8260
	cis-1,2-Dichloroethene	0.532	0:30	1.0	70	7		079814-001	SW846-8260
TJA-3	Acetone	2.83	1.25	5.0	빙	7		079799-001	SW846-8260
24-Jul-06	Carbon Disulfide	3.74	1.25	5.0	N	7	7	079799-001	SW846-8260
	Toluene	0.300	0.25	1.0	1,000	٦	1.0U, B1	079799-001	SW846-8260
	Trichloroethene	2.88	0.25	1.0	5.0			079799-001	SW846-8260
TJA-4	Acetone	4.21	1.25	5.0	ШZ	7	5.0U, B1, B2	079822-001	SW846-8260
14-Aug-06	Carbon Disulfide	1.69	1.25	5.0	빙	7		079822-001	SW846-8260
	Toluene	0.262	0.25	1.0	1,000	7	1.0U, B1	079822-001	SW846-8260
TJA-4 (Duplicate) 14-Aug-06	Acetone	4.47	1.25	5.0	NE NE	7	5.0U, B1, B2	079823-001	SW846-8260
TJA-6 19-Jul-06	Acetone	2.27	1.25	5.0	핑	٦		079794-001	SW846-8260
TJA-7	Acetone	4.11	1.25	5.0	빙	7	7	079818-001	SW846-8260
10-Aug-06	Methylene Chloride	2.30	2.0	5.0	5.0	7	5.0U, B1	079818-001	SW846-8260
	Toluene	0.279	0.25	1.0	1,000	7	1.0U, B1	079818-001	SW846-8260
	Trichloroethene	0.380	0.25	1.0	5.0	7		079818-001	SW846-8260
WYO-3	Acetone	2.79	1.25	5.0	빙	7	5.0U, B2	079786-001	SW846-8260
12-Jul-06	Toluene	0.358	0.25	1.0	1,000	٦	1.0U, B1	079786-001	SW846-8260
WYO-4	1,1-Dichloroethane	1.05	0:30	1.0	N			079805-001	SW846-8260
01-Aug-06	Tetrachloroethene	0.261	0.25	1.0	5.0	٦		079805-001	SW846-8260
	Toluene	0.397	0.25	1.0	1,000	ſ	1.0U, B1	079805-001	SW846-8260
	Trichloroethene	7.87	0.25	1.0	5.0			079805-001	SW846-8260
	Xylenes (total)	0.251	0.25	1.0	10,000	ſ	1.0U, B1	079805-001	SW846-8260
	cis-1.2-Dichloroethene	2 11	0.30	, C	70			079805-001	SW846_8260

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Method Detection Limits for Volatile Organic Compounds and Polychlorinated Biphenyls Tijeras Arroyo Groundwater Investigation Table TAG E-2

Analyte	MDL <sup>b</sup>	Analytical Method <sup>9</sup>
1,1,1-Trichloroethane	0:30	SW846 8260
1,1,2,2-Tetrachloroethane	0.25	SW846 8260
1,1,2-Trichloroethane	0.25	SW846 8260
1,1-Dichloroethane	0:30	SW846 8260
1,1-Dichloroethene	0.30	SW846 8260
1,2-Dichloroethane	0.25	SW846 8260
1,2-Dichloropropane	0.25	SW846 8260
2-Butanone	1.25	SW846 8260
2-Hexanone	1.25	SW846 8260
4-methyl-, 2-Pentanone	1.25	SW846 8260
Acetone	1.25	SW846 8260
Benzene	0.30	SW846 8260
Bromodichloromethane	0.25	SW846 8260
Bromoform	0.25	SW846 8260
Bromomethane	0.50	SW846 8260
Carbon disulfide	1.25	SW846 8260
Carbon tetrachloride	0.25	SW846 8260
Chlorobenzene	0.25	SW846 8260
Chloroethane	0.50	SW846 8260
Chloroform	0.25	SW846 8260
Chloromethane	0.50	SW846 8260
Dibromochloromethane	0.25	SW846 8260
Ethyl benzene	0.25	SW846 8260
Methylene chloride	2.0	SW846 8260
Styrene	0.25	SW846 8260
Tetrachloroethene	0.25	SW846 8260
Toluene	0.25	SW846 8260
Trichloroethene	0.25	SW846 8260
Vinyl acetate	1.5	SW846 8260
Vinyl chloride	0.50	SW846 8260
Xylene	0.25	SW846 8260
cis-1,2-Dichloroethene	0:30	SW846 8260
cis-1,3-Dichloropropene	0.25	SW846 8260
trans-1,2-Dichloroethene	0:30	SW846 8260
trans-1,3-Dichloropropene	0.25	SW846 8260
Aroclor-1016	0.0308 – 0.0416	SW846 8082
Aroclor-1221	0.0308 – 0.0416	SW846 8082
Aroclor-1232	0.0308 - 0.0416	SW846 8082
Aroclor-1242	0.0308 – 0.0416	SW846 8082
Aroclor-1248	0.0308 - 0.0416	SW846 8082
Aroclor-1254	0.0308 – 0.0416	SW846 8082
Aroclor-1260	0.0308 – 0.0416	SW846 8082

**APPENDICES** 

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### Summary of Nitrate plus Nitrite Results Tijeras Arroyo Groundwater Investigation Table TAG E-3

Well ID	Sample Date	Nitrate plus Nitrite Result⁴ (mq/L)	MDL° (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
PGS-2	90-Jul-06	0.895	0.014	0.050	10			079777-018	EPA 353.1
FA1-W-01	03-Aug-06	2.76	0.070	0.25	10			079812-018	EPA 353.1
FA1-W-02	15-Aug-06	1.05	0.014	0.050	10			079779-018	EPA 353.1
FA1-W-03	26-Jul-06	6.85	0.070	0.25	10	В		079803-018	EPA 353.1
FA1-W-04	20-Jul-06	1.78	0.014	0:050	10	В		079792-018	EPA 353.1
FA1-W-05	11-Jul-06	1.23	0.014	0.050	10			079782-018	EPA 353.1
FA1-W-06	10-Jul-06	2.89	0.070	0.25	10			079796-018	EPA 353.1
FA1-W-08	27-Jul-06	6.59	0.070	0.25	10			079807-018	EPA 353.1
TA1-W-08 (Re-analysis)	27-Jul-06	7.11	0.070	0.25	10	В,Н	HT, J	079807-R18	EPA 353.1
FA1-W-08 (Duplicate)	27-Jul-06	1.23	0.014	0:050	10			079808-018	EPA 353.1
TA1-W-08 (Duplicate Re-analysis)	27-Jul-06	7.10	0.070	0.25	10	В, Н	HT, J	079808-R18	EPA 353.1
FA2-NW1-595	13-Jul-06	3.13	0.014	0.050	10			079788-018	EPA 353.1
TA2-SW1-320	24-Oct-05	25.2	0.17	0.50	10			072270-018	EPA 353.1
	23-Jan-06	25.2	0.17	0.50	10			073689-018	EPA 353.1
	26-Apr-06	25.5	0.14	0.50	10			077284-018	EPA 353.1
	90-Jul-06	28.8	0.14	0.50	10			079775-018	EPA 353.1
7A2-SW1-320 (Duplicate)	26-Apr-06	24.9	0.14	0.50	10			077285-018	EPA 353.1
FA2-W-01	06-Jan-06	3.71	0.085	0.25	10			073700-018	EPA 353.1
	25-Jul-06	4.95	0.070	0.25	10	В		079801-018	EPA 353.1
TA2-W-19	31-Oct-05	8.60	0.17	0.50	10			072281-018	EPA 353.1
	16-Jan-06	10.2	0.17	0.50	10			073708-018	EPA 353.1
	03-May-06	8.93	0.14	0.50	10	В		077295-018	EPA 353.1
	08-Aug-06	9.31	0.070	0.25	10	В		079816-018	EPA 353.1
FA2-W-19 (Duplicate)	16-Jan-06	10.2	0.17	0.50	10			073709-018	EPA 353.1
TA2-W-26	25-Oct-05	3.48	0.17	0.50	10			072272-018	EPA 353.1
	09-Jan-06	4.35	0.017	0.050	10			073702-018	EPA 353.1
	27-Apr-06	4.42	0.14	0.50	10	В		077287-018	EPA 353.1
	02-Aug-06	4.89	0.070	0.25	10			079810-018	EPA 353.1
FA2-W-26 (Duplicate)	25-Oct-05	3.56	0.17	0.50	10			072273-018	EPA 353.1
TA2-W-27	05-Jan-06	3.91	0.17	0.50	10			073698-018	EPA 353.1
	11.100	3 7 5	020	L	7			010 005050	200

## Table TAG E-3 Summary of Nitrate plus Nitrite Results Tijeras Arroyo Groundwater Investigation

Mitride Puls	Well ID         Sample Date         Nitride Plus (mg/L)         MOL*         POL*         Laboratory (mg/L)         Miltitle         Cualifier (mg/L)         Accessor         Miltitle         Miltitle         Miltitle         Cualifier (mg/L)         Cuali										
B.Oct-05         103         0.17         0.50         10         0.7227b-018           3-Jan-06         10.1         0.50         10         0.77         0.7722b-018           3-Jan-06         10.1         0.50         10         0.7723b-018         0.7723b-018           8-Apr-06         8.80         0.014         0.60         10         B         0.7723b-018           4-Jan-06         2.89         0.017         0.60         10         B         0.7728b-018           4-Jan-06         2.89         0.017         0.50         10         B         0.7228b-018           4-Jan-06         2.89         0.014         0.50         10         B         0.7228b-018           4-Jan-06         2.36         0.014         0.50         10         B         0.7328b-018           3-Jan-06         2.52         0.014         0.050         10<	C-Crt-16         Wight         0.17         0.50         10         0.72279-018           3-Jan-16         11,1         0.17         0.50         10         BZ J         0.72706-018           3-Jan-16         88.0         0.14         0.50         10         BZ J         0.77205-018           7-Aug-36         8.80         0.074         0.25         10         B         0.77205-018           4-Jan-16         2.69         0.077         0.050         10         B         0.77205-018           4-Jan-16         2.80         0.017         0.050         10         B         0.7286-018           4-Jan-16         2.80         0.017         0.050         10         B         0.7286-018           4-Jan-16         2.80         0.14         0.50         10         B         0.7286-018           4-Jan-16         2.80         0.14         0.50         10         B         0.7286-018           4-Jan-16         2.81         0.14         0.50         10         B         0.7286-018           3-Jan-16         2.82         0.014         0.50         10         B         0.77286-018           3-Jan-16         2.84         0.017	Well ID	Sample Date	Nitrate plus Nitrite Resulta	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
3-Jan-06         10.1         0.17         0.50         10         BZ, J         077293-018           A-Ap-06         8.80         0.014         0.50         10         BZ, J         077293-018           7-Aug-06         9.99         0.070         0.25         10         B         077293-018           4-Jan-06         2.69         0.017         0.050         10         D         073896-018           4-Jan-06         2.89         0.014         0.050         10         B         073896-018           4-Jan-06         2.80         0.17         0.50         10         D         073896-018           4-Jan-06         2.80         0.17         0.50         10         D         073896-018           4-Jan-06         2.80         0.17         0.50         10         D         073892-018           4-Jan-06         2.85         0.14         0.50         10         D         073892-018           4-Jan-06         2.56         0.014         0.50         10         D         073892-018           3-Jan-06         2.56         0.014         0.50         10         0.73892-018         073892-018           3-Jan-06         2.54	3-Jan-66         161         0.17         0.50         10         BC         JO7206-018           8-Ap-166         8.89         0.014         0.50         10         B         BC JJ         077289-018           4-Jan-16         2.69         0.077         0.050         10         B         0.77894-018           4-Jan-16         2.69         0.017         0.050         10         B         0.77894-018           4-Jan-16         2.69         0.017         0.050         10         B         0.73896-018           4-Jan-16         2.80         0.017         0.050         10         B         0.73896-018           4-Jan-16         2.80         0.014         0.050         10         B         0.73294-018           4-Jan-16         2.80         0.14         0.50         10         B         0.77294-018           4-Jan-16         2.25         0.14         0.50         10         D         0.77294-018           4-Jan-16         2.26         0.014         0.050         10         0.77296-018         0.77296-018           4-Jan-16         2.27         0.014         0.050         10         0.77296-018         0.77296-018 <t< td=""><td>TJA-2</td><td>28-Oct-05</td><td>9:36</td><td>0.17</td><td>0.50</td><td>10</td><td></td><td></td><td>072279-018</td><td>EPA 353.1</td></t<>	TJA-2	28-Oct-05	9:36	0.17	0.50	10			072279-018	EPA 353.1
8-Apr-06         8.80         0.14         0.50         10         B2 J         077293-018           7-Aug-06         9.99         0.070         0.25         10         B         0.73894-018           4-Jan-06         2.69         0.017         0.050         10         B         0.73894-018           4-Jul-06         2.80         0.014         0.050         10         B         0.73294-018           4-Jul-06         2.80         0.17         0.50         10         B         0.72284-018           4-Jul-06         2.80         0.17         0.50         10         B         0.72284-018           4-May-06         2.80         0.14         0.50         10         B         0.72284-018           4-Mug-06         2.75         0.14         0.50         10         B         0.72284-018           4-Mug-06         2.75         0.14         0.50         10         B         0.72284-018           4-Mug-06         2.56         0.14         0.50         10         0.73883-018         0.73883-018           3-Jul-06         2.52         0.01         0.50         10         0.73883-018         0.73883-018           3-Jul-06         2	RAMONO         880         0.14         0.50         10         B2,JJ         077293-018           AAMONO         2.69         0.070         0.25         10         B         077369-018           4-Jan-06         2.69         0.077         0.050         10         B         077369-018           4-Jan-06         2.98         0.017         0.050         10         B         077369-018           4-Jan-06         2.98         0.017         0.50         10         B         077369-018           1-Mov-05         2.80         0.17         0.50         10         B         077371-018           4-Mov-06         2.80         0.14         0.50         10         B         077297-018           4-Moy-06         2.75         0.14         0.50         10         B         077297-018           4-Moy-06         2.75         0.14         0.50         10         B         077297-018           4-Moy-06         2.05         0.01         0.05         10         077296-018           2-Jan-06         2.54         0.01         0.50         10         077296-018           2-Jan-06         2.54         0.14         0.50         10 <td></td> <td>13-Jan-06</td> <td>10.1</td> <td>0.17</td> <td>0.50</td> <td>10</td> <td></td> <td></td> <td>073706-018</td> <td>EPA 353.1</td>		13-Jan-06	10.1	0.17	0.50	10			073706-018	EPA 353.1
7-Aug-06         9.99         0.070         0.25         10         B         07894-018           4-Jan-06         2.69         0.017         0.050         10         B         07399-018           4-Jan-06         2.89         0.014         0.050         10         B         07399-018           4-Jul-06         2.80         0.014         0.050         10         B         073284-018           1-Nov-05         2.80         0.014         0.50         10         B         073284-018           7-Jan-06         2.80         0.14         0.50         10         B         073284-018           4-Aug-06         2.75         0.14         0.50         10         0.79         073282-018           4-Aug-06         2.75         0.014         0.50         10         073823-018         073823-018           3-Jan-06         2.72         0.014         0.050         10         0.79         073823-018           3-Jan-06         2.63         0.017         0.050         10         0.79         0.7386-018           3-Jan-06         2.61         0.17         0.50         10         0.7386-018         0.7386-018           3-Jan-06         2.	7-Aug-06         999         0070         0.25         10         B         078694-018           7-Aug-06         289         0.017         0.050         10         B         078694-018           4-Jul-06         286         0.017         0.050         10         B         072794-018           4-Jul-06         280         0.017         0.050         10         B         07284-018           1-Na-06         280         0.17         0.50         10         B         077284-018           7-Jan-06         280         0.17         0.50         10         B         077284-018           4-Aug-06         275         0.14         0.50         10         B         077287-018           4-Aug-06         206         0.14         0.50         10         B         077892-018           4-Aug-06         2.06         0.14         0.50         10         077892-018           3-Jul-06         2.53         0.017         0.50         10         B         077892-018           3-Jul-06         2.64         0.17         0.50         10         B         077892-018           3-Jul-06         2.64         0.17         0.50		28-Apr-06	8.80	0.14	0.50	10		В2 ,Л	077293-018	EPA 353.1
4-Jan-06         2.69         0.017         0.050         10         B         0.73696-018           4-Jul-06         2.98         0.014         0.050         10         B         0.73794-018           1-Nov-05         2.80         0.17         0.50         10         B         0.73711-018           7-Jan-06         2.90         0.17         0.50         10         B         0.73284-018           4-May-06         2.83         0.14         0.50         10         B         0.77297-018           4-Aug-06         2.06         0.14         0.50         10         D         0.77297-018           4-Aug-06         2.36         0.044         0.50         10         D         0.7382-018           4-Aug-06         2.36         0.044         0.50         10         0.7382-018         0.7382-018           3-Jan-06         2.53         0.017         0.50         10         0.7382-018         0.7382-018           3-Jan-06         2.63         0.017         0.50         10         0.7382-018         0.7382-018           3-Jan-06         2.64         0.17         0.50         10         0.70         0.7382-018           9-May-06	4-Jan-06         2.69         0.017         0.050         10         B         0.73896-018           4-Jan-06         2.89         0.014         0.050         10         B         0.7789-08           1-Nov-05         2.80         0.17         0.50         10         B         0.77294-018           4-May-06         2.80         0.14         0.50         10         B         0.77294-018           4-May-06         2.80         0.14         0.50         10         B         0.77294-018           4-May-06         2.80         0.14         0.50         10         B         0.77294-018           4-May-06         2.75         0.014         0.50         10         D         0.77294-018           4-May-06         2.72         0.014         0.050         10         0.77294-018         0.77294-018           3-Jan-06         2.72         0.014         0.050         10         B         0.77294-018           3-Jan-06         2.61         0.01         B         B         0.77294-018           9-Jan-06         2.62         0.01         B         B         0.77294-018           9-Jan-06         2.62         0.01         B		07-Aug-06	9.99	0.070	0.25	10	В		079814-018	EPA 353.1
4-Jul-06         2.98         0.014         0.050         10         B         079799-018           1-Nov-05         28.0         0.17         0.50         10         8         072284-018           1-Nov-05         29.0         0.17         0.50         10         8         07371-018           4-May-06         28.9         0.14         0.50         10         8         077297-018           4-Aug-06         27.5         0.14         0.50         10         8         077297-018           4-Aug-06         27.5         0.14         0.50         10         079822-018           4-Aug-06         2.06         0.14         0.50         10         079822-018           4-Aug-06         2.26         0.14         0.50         10         079822-018           3-Jan-06         2.26         0.014         0.50         10         073824-018           3-Jan-06         2.61         0.17         0.50         10         072286-018           3-Jan-06         2.61         0.14         0.50         10         0.72286-018           3-Jan-06         2.62         0.14         0.50         10         0.72286-018           3-Jan-06	4-Ju-06         238         0.014         0.050         10         B         072784018           1-Nov-05         28.0         0.17         0.50         10         B         072784018           7-Jan-06         28.0         0.17         0.50         10         B         07284018           7-Jan-06         28.0         0.14         0.50         10         B         07284018           4-Aug-06         27.5         0.14         0.50         10         B         07282-018           4-Aug-06         27.5         0.14         0.50         10         B         07382-018           4-Aug-06         2.36         0.14         0.50         10         B         07382-018           3-Jan-06         2.36         0.01         0.050         10         0.70         0.70         0.70           3-Jan-06         2.54         0.17         0.50         10         B         0.7386-018           3-Jan-06         2.54         0.17         0.50         10         B         0.7386-018           3-Jan-06         2.54         0.17         0.50         10         B         B.2, J         0.7386-018           3-Jan-06         2.54	TJA-3	04-Jan-06	2.69	0.017	0.050	10			073696-018	EPA 353.1
1-Mov-05         28.0         0.17         0.50         10         PR         072284-018           7-Jan-06         29.0         0.17         0.50         10         B         07371-018           7-Jan-06         28.9         0.14         0.50         10         B         077297-018           4-May-06         27.5         0.14         0.50         10         B         077397-018           4-Aug-06         20.6         0.14         0.50         10         077382-018         077382-018           4-Aug-06         20.6         0.14         0.50         10         07982-018         073823-018           4-Aug-06         2.36         0.014         0.050         10         073823-018         073823-018           3-Jan-06         2.63         0.017         0.050         10         073823-018         073823-018           3-Jan-06         2.63         0.017         0.50         10         073823-018         073823-018           3-Jan-06         2.64         0.17         0.50         10         B2.0         073824-018           9-Jan-06         2.61         0.14         0.50         10         B2.0         073818-018           0-Aug-06 </th <td>1-Nov-05         28.0         0.17         0.50         10         072284-018           7-Jan-06         29.0         0.17         0.50         10         8         073711-018           4-May-06         28.9         0.14         0.50         10         B         073871-018           4-May-06         27.5         0.14         0.50         10         B         073873-018           4-Aug-06         27.5         0.14         0.50         10         07382-018         073823-018           4-Aug-06         2.36         0.04         0.50         10         073823-018         073823-018           3-Jan-06         2.35         0.04         0.050         10         073824-018         073824-018           3-Jan-06         2.54         0.17         0.050         10         B         07384-018           3-Jan-06         2.54         0.17         0.50         10         B         073716-018           9-Jan-06         2.54         0.17         0.50         10         B         073716-018           9-Jan-06         2.52         0.14         0.50         10         B         073716-018           2-Jan-06         2.67         0.04</td> <td>NI</td> <td>24-Jul-06</td> <td>2.98</td> <td>0.014</td> <td>0.050</td> <td>10</td> <td>В</td> <td></td> <td>079799-018</td> <td>EPA 353.1</td>	1-Nov-05         28.0         0.17         0.50         10         072284-018           7-Jan-06         29.0         0.17         0.50         10         8         073711-018           4-May-06         28.9         0.14         0.50         10         B         073871-018           4-May-06         27.5         0.14         0.50         10         B         073873-018           4-Aug-06         27.5         0.14         0.50         10         07382-018         073823-018           4-Aug-06         2.36         0.04         0.50         10         073823-018         073823-018           3-Jan-06         2.35         0.04         0.050         10         073824-018         073824-018           3-Jan-06         2.54         0.17         0.050         10         B         07384-018           3-Jan-06         2.54         0.17         0.50         10         B         073716-018           9-Jan-06         2.54         0.17         0.50         10         B         073716-018           9-Jan-06         2.52         0.14         0.50         10         B         073716-018           2-Jan-06         2.67         0.04	NI	24-Jul-06	2.98	0.014	0.050	10	В		079799-018	EPA 353.1
7-Jan-06         29.0         0.17         0.50         10         B         077297-018           4-May-06         28.9         0.14         0.50         10         B         077297-018           4-Aug-06         27.5         0.14         0.50         10         079822-018           4-Aug-06         20.6         0.14         0.50         10         07982-018           4-Aug-06         2.36         0.04         0.50         10         07383-018           3-Jan-06         2.36         0.014         0.050         10         07383-018           3-Jan-06         2.63         0.017         0.050         10         07384-018           3-Jan-06         2.63         0.017         0.050         10         07384-018           3-Jan-06         2.63         0.17         0.50         10         07286-018           3-Jan-06         2.61         0.17         0.50         10         07286-018           3-Jan-06         2.61         0.17         0.50         10         07381-018           3-Jan-06         2.61         0.14         0.50         10         07381-018           0-Aug-06         1.74         0.50         10	7-Jan-06         29.0         0.17         0.50         10         B         077371-018           4-May-06         28.9         0.14         0.50         10         B         077297-018           4-May-06         27.5         0.14         0.50         10         B         077297-018           4-May-06         27.5         0.14         0.50         10         078922-018           4-May-06         2.06         0.04         0.50         10         078922-018           3-Jan-06         2.52         0.014         0.60         10         07892-018           3-Jan-06         2.53         0.017         0.60         10         07892-018           3-Jan-06         2.63         0.017         0.60         10         07392-018           3-Jan-06         2.63         0.17         0.60         10         07392-018           3-Jan-06         2.61         0.17         0.60         10         07392-018           9-Jan-06         2.62         0.14         0.50         10         07392-018           2-Jan-06         2.21         0.014         0.60         10         07392-018           2-Jan-06         2.77         0.046	TJA-4	01-Nov-05	28.0	0.17	0.50	10			072284-018	EPA 353.1
4-May-06         28.9         0.14         0.50         10         B         077297-018           4-Aug-06         27.5         0.14         0.50         10         078822-018         078822-018           4-Aug-06         20.6         0.14         0.50         10         078822-018         078822-018           3-Jan-06         2.36         0.085         0.25         10         07892-018         078823-018           3-Jan-06         2.63         0.017         0.050         10         07892-018         07894-018           3-Jan-06         2.63         0.017         0.050         10         07394-018         07394-018           3-Jan-06         2.64         0.17         0.50         10         B         07376-018           9-Jan-06         2.61         0.17         0.50         10         B         07376-018           2-Jul-06         2.21         0.014         0.050         10         B         07386-018           2-Jul-06         2.21         0.017         0.050         10         070         07376-018           2-Jan-06         2.67         0.085         0.25         10         0770         0.25           2-Jan-06	4 May-06         28.9         0.14         0.50         10         B         077297-018           4 Aug-06         27.5         0.14         0.50         10         078622-018           4 Aug-06         20.6         0.14         0.50         10         078622-018           3-Jan-06         2.36         0.085         10         07892-018         077892-018           3-Jan-06         2.72         0.017         0.050         10         077892-018         077892-018           3-Jan-06         2.63         0.017         0.050         10         077286-018         077286-018           3-Jan-06         2.63         0.017         0.50         10         B         077286-018           3-Jan-06         2.63         0.17         0.50         10         B         077286-018           3-Jan-06         2.61         0.14         0.50         10         B         07736-018           3-Jan-06         2.52         0.14         0.50         10         B         07736-018           2-Jan-06         2.27         0.014         0.050         10         07736-018         077277-018           2-May-06         2.77         0.044         0.050	AL	17-Jan-06	29.0	0.17	0:50	10			073711-018	EPA 353.1
4-Aug-06         27.5         0.14         0.50         10         079822-018           4-Aug-06         20.6         0.14         0.50         10         079823-018           3-Jan-06         2.36         0.085         0.25         10         073693-018           3-Jan-06         2.36         0.014         0.050         10         07594-018           3-Jan-06         2.63         0.017         0.050         10         07594-018           3-Jan-06         2.64         0.17         0.50         10         073694-018           3-Jan-06         2.64         0.17         0.50         10         07384-018           9-Jan-06         2.61         0.17         0.50         10         07384-018           9-May-06         17.4         0.50         10         B         07384-018           2-Jul-06         2.21         0.014         0.050         10         07384-018           2-Jul-06         2.52         0.017         0.050         10         07384-018           2-Jul-06         2.67         0.085         0.25         10         07384-018           2-Jul-06         2.67         0.070         0.25         10         073	4Aug-06         27.5         0.14         0.50         10         079822-018           4Aug-06         206         0.14         0.60         10         0.70823-018           3-Jan-06         2.36         0.014         0.60         10         0.70823-018           9-Jul-06         2.72         0.014         0.050         10         0.70823-018           9-Jul-06         2.63         0.017         0.050         10         0.72869-018           3-Jan-06         2.64         0.17         0.50         10         0.7286-018           3-Jan-06         2.61         0.17         0.50         10         0.7286-018           3-Jan-06         2.61         0.17         0.50         10         B         B.2, J         0.7316-018           9-Jan-06         2.62         0.14         0.50         10         B         B.2, J         0.7316-018           0-Jan-06         2.21         0.014         0.050         10         B         B.2, J         0.7316-018           2-Jan-06         2.67         0.085         0.25         10         B3, J         0.7328-018           2-Jan-06         2.77         0.014         0.50         10	G	04-May-06	28.9	0.14	0:50	10	В		077297-018	EPA 353.1
4-Aug-06         20.6         0.14         0.50         10         709823-018         709823-018           3-Jan-06         2.36         0.085         0.25         10         0.73693-018         0.73693-018           3-Jan-06         2.63         0.017         0.050         10         0.73694-018         0.73694-018           3-Jan-06         2.63         0.017         0.050         10         0.73694-018         0.73694-018           3-Nov-05         2.64         0.17         0.50         10         BB2, J         0.73694-018           9-Jan-06         2.6.1         0.17         0.50         10         BB2, J         0.73286-018           9-May-06         2.5.2         0.14         0.50         10         BB2, J         0.73818-018           2-Jul-06         2.21         0.014         0.050         10         BB2, J         0.73818-018           2-Jul-06         2.21         0.017         0.050         10         BB3, J         0.73818-018           2-Jul-06         2.67         0.085         0.25         10         BB3, J         0.77287-018           2-Jul-06         2.77         0.14         0.50         10         0.70         0.75	4Aug-06         206         0.14         0.50         10         079823-018           3-Jan-06         2.36         0.085         0.25         10         073893-018           9-Jul-06         2.72         0.014         0.050         10         073893-018           9-Jul-06         2.63         0.017         0.050         10         073894-018           3-Jan-06         2.63         0.017         0.050         10         07286-018           3-Jan-06         2.64         0.17         0.50         10         07286-018           3-Jan-06         2.62         0.14         0.50         10         BB         B2, J         07306-018           9-May-06         2.52         0.14         0.50         10         BB         B2, J         07306-018           2-Jul-06         2.21         0.014         0.050         10         D7986-018         07304-018           2-Jan-06         2.67         0.044         0.050         10         077287-018         077289-018           2-Jan-06         2.77         0.070         0.25         10         077896-018         077896-018           1-Aug-06         2.77         0.070         0.25         10	RO	14-Aug-06	27.5	0.14	0.50	10			079822-018	EPA 353.1
3-Jan-06         2.36         0.085         0.25         10         73693-018         73693-018           9-Jul-06         2.72         0.014         0.050         10         70         77394-018         77394-018           3-Jan-06         2.63         0.017         0.050         10         70         77394-018         77394-018           3-Nov-05         26.1         0.17         0.50         10         82, J         0.73694-018         77300-018           9-Jan-06         26.2         0.14         0.50         10         82, J         0.73300-018         77300-018           9-May-06         2.21         0.014         0.050         10         82, J         0.73818-018         7700-018           2-Jul-06         2.21         0.014         0.050         10         79         77277-018         7704-018           2-Jan-06         2.77         0.085         0.050         10         83, J         0.7304-018         77289-018           2-Jan-06         2.77         0.070         0.25         10         0.70         0.70         0.70         0.70         0.70         0.70         0.70         0.70         0.70         0.70         0.70         0.70 <t< th=""><td>3-Jan-06         2.36         0.085         0.25         10         073693-018           9-Jul-06         2.72         0.014         0.050         10         073694-018           3-Jan-06         2.63         0.017         0.050         10         073694-018           3-Jan-06         2.61         0.017         0.050         10         073694-018           3-Jan-06         2.61         0.17         0.050         10         073694-018           9-Jan-06         2.61         0.17         0.50         10         B         07286-018           9-Jan-06         2.61         0.14         0.50         10         B         07368-018           0-Mg-06         17.4         0.70         2.5         10         B         07786-018           2-Jul-06         2.21         0.014         0.050         10         D         07786-018           2-Jan-06         2.67         0.017         0.050         10         D         07720-018           2-Jan-06         2.77         0.014         0.050         10         D         077209-018           1-Jul-06         2.77         0.070         0.25         10         07720-018</td><td>TJA-4 (Duplicate)</td><td>14-Aug-06</td><td>20.6</td><td>0.14</td><td>0.50</td><td>10</td><td></td><td></td><td>079823-018</td><td>EPA 353.1</td></t<>	3-Jan-06         2.36         0.085         0.25         10         073693-018           9-Jul-06         2.72         0.014         0.050         10         073694-018           3-Jan-06         2.63         0.017         0.050         10         073694-018           3-Jan-06         2.61         0.017         0.050         10         073694-018           3-Jan-06         2.61         0.17         0.050         10         073694-018           9-Jan-06         2.61         0.17         0.50         10         B         07286-018           9-Jan-06         2.61         0.14         0.50         10         B         07368-018           0-Mg-06         17.4         0.70         2.5         10         B         07786-018           2-Jul-06         2.21         0.014         0.050         10         D         07786-018           2-Jan-06         2.67         0.017         0.050         10         D         07720-018           2-Jan-06         2.77         0.014         0.050         10         D         077209-018           1-Jul-06         2.77         0.070         0.25         10         07720-018	TJA-4 (Duplicate)	14-Aug-06	20.6	0.14	0.50	10			079823-018	EPA 353.1
9-Jul-06         2.72         0.014         0.050         10         70         794-018           3-Jan-06         2.63         0.017         0.050         10         70         703694-018           3-Jan-06         25.4         0.17         0.50         10         82, J         072286-018           9-Jan-06         26.1         0.17         0.50         10         8         073715-018           9-Jan-06         26.1         0.14         0.50         10         8         073715-018           9-May-06         25.2         0.14         0.50         10         8         073818-018           0-Aug-06         17.4         0.014         0.050         10         079818-018           2-Jul-06         2.21         0.017         0.050         10         07985-018           7-Oct-05         2.92         0.017         0.050         10         83, J         073704-018           2-Jan-06         2.67         0.046         0.050         10         83, J         07389-018           2-Jan-06         2.77         0.014         0.050         10         83, J         07389-018           2-Jan-06         2.77         0.014         0.050<	9-Jul-06         2.72         0.014         0.050         10         079794-018           3-Jan-06         2.63         0.017         0.050         10         073894-018           3-Nov-05         25.4         0.17         0.50         10         82, J         073286-018           3-Nov-05         25.1         0.17         0.50         10         B         D         07304-018           9-Jan-06         25.2         0.14         0.50         10         B         B2, J         073286-018           9-May-06         25.2         0.71         2.5         10         B         D         07388-018           0-Aug-06         2.21         0.014         0.050         10         B         D         07388-018           2-Jan-06         2.67         0.085         0.25         10         B3, J         07389-018           2-May-06         2.77         0.14         0.50         10         B3, J         07789-018           1-Aug-06         2.77         0.070         0.25         10         07986-018         07986-018	TJA-6	03-Jan-06	2.36	0.085	0.25	10			073693-018	EPA 353.1
3-Jan-06         2.63         0.017         0.050         10         60.508-018         773694-018           3-Nov-05         25.4         0.17         0.50         10         8         0.7286-018         772286-018           9-Jan-06         26.1         0.17         0.50         10         8         0.7315-018         77300-018           9-May-06         17.4         0.70         2.5         10         0.73818-018         77300-018	3-Jan-06         2.63         0.017         0.050         10         073694-018           3-Nov-05         25.4         0.17         0.50         10         82, J         072286-018           9-Jan-06         26.1         0.17         0.50         10         BZ, J         07315-018           9-May-06         25.2         0.14         0.50         10         B         D         0730-018           9-May-06         17.4         0.70         2.5         10         B         0730-018         0730-018           0-Aug-06         17.4         0.07         0.050         10         B         B3, J         07286-018           2-Jan-06         2.21         0.044         0.050         10         B3, J         07376-018           2-Jan-06         2.77         0.14         0.50         10         B3, J         073704-018           2-May-06         2.77         0.070         0.25         10         0.070         0.25           1-Aug-06         2.77         0.070         0.25         10         0.070         0.25	VA'	19-Jul-06	2.72	0.014	0.050	10			079794-018	EPA 353.1
3-Nov-05         25.4         0.17         0.50         10         B2, J         072286-018           9-Jan-06         26.1         0.17         0.50         10         B         B2, J         07315-018           9-Jan-06         25.2         0.14         0.50         10         B         077300-018           0-Aug-06         17.4         0.070         2.5         10         B         073818-018           2-Jul-06         2.21         0.014         0.050         10         073786-018         072277-018           2-Jan-06         2.67         0.085         0.25         10         B3, J         073704-018           2-May-06         2.77         0.070         0.25         10         0.050         10         07389-018           1-Aug-06         2.77         0.070         0.25         10         0.050         10         0.050         10         0.050         0.050         10         0.050 <td>3-Nov-05         26.4         0.17         0.50         10         PG286-018           9-Jan-06         26.1         0.17         0.50         10         B         D7730-018           9-Jan-06         26.2         0.14         0.50         10         B         077300-018           9-May-06         17.4         0.70         2.5         10         B         077300-018           0-Mug-06         17.4         0.70         2.5         10         B         077300-018           2-Jul-06         2.21         0.014         0.050         10         B         073848-018           7-Oct-05         2.92         0.017         0.050         10         B3, J         073277-018           2-May-06         2.77         0.14         0.50         10         B3, J         07789-018           1-Aug-06         2.77         0.070         0.25         10         079805-018</td> <td>TJA-6 (Duplicate)</td> <td>03-Jan-06</td> <td>2.63</td> <td>0.017</td> <td>0.050</td> <td>10</td> <td></td> <td></td> <td>073694-018</td> <td>EPA 353.1</td>	3-Nov-05         26.4         0.17         0.50         10         PG286-018           9-Jan-06         26.1         0.17         0.50         10         B         D7730-018           9-Jan-06         26.2         0.14         0.50         10         B         077300-018           9-May-06         17.4         0.70         2.5         10         B         077300-018           0-Mug-06         17.4         0.70         2.5         10         B         077300-018           2-Jul-06         2.21         0.014         0.050         10         B         073848-018           7-Oct-05         2.92         0.017         0.050         10         B3, J         073277-018           2-May-06         2.77         0.14         0.50         10         B3, J         07789-018           1-Aug-06         2.77         0.070         0.25         10         079805-018	TJA-6 (Duplicate)	03-Jan-06	2.63	0.017	0.050	10			073694-018	EPA 353.1
9-Jan-06         26.1         0.17         0.50         10         B2, J         073715-018           9-May-06         25.2         0.14         0.50         10         B         077300-018           0-Aug-06         17.4         0.70         2.5         10         079818-018           2-Jul-06         2.21         0.014         0.050         10         079786-018           7-Oct-05         2.92         0.017         0.050         10         B3, J         073704-018           2-Jan-06         2.67         0.085         0.25         10         B3, J         073704-018           2-May-06         2.77         0.070         0.25         10         0.050         10           1-Aug-06         2.77         0.070         0.25         10         0.050         10	9-Jan-06         26.1         0.17         0.50         10         B2, J         073715-018           9-May-06         25.2         0.14         0.50         10         B         B2, J         077300-018           0-Aug-06         17.4         0.70         2.5         10         B         077300-018         07300-018           2-Jul-06         2.21         0.014         0.050         10         B         07308-018         1           2-Jul-06         2.22         0.017         0.050         10         B3, J         07374-018         1           2-Jan-06         2.67         0.085         0.25         10         B3, J         077289-018         1           1-Aug-06         2.77         0.070         0.25         10         0.7989-018         1	TJA-7	03-Nov-05	25.4	0.17	0.50	10			072286-018	EPA 353.1
9-May-06         25.2         0.14         0.50         10         B         077300-018           0-Aug-06         17.4         0.70         2.5         10         8         079818-018         1           2-Jul-06         2.21         0.014         0.050         10         072277-018         1           7-Oct-05         2.92         0.017         0.050         10         B3, J         073704-018         1           2-Jan-06         2.77         0.14         0.50         10         B3, J         073704-018         1           2-May-06         2.77         0.070         0.25         10         0         077289-018         1	9-May-06         26.2         0.14         0.50         10         B         077300-018           0-Aug-06         17.4         0.70         2.5         10         0.70         0.78         0.79818-018         0.70         0.70         0.70         0.70         0.70         0.70         0.70         0.70         0.70         0.70         0.70         0.70         0.70         0.72	Лo	19-Jan-06	26.1	0.17	0.50	10			073715-018	EPA 353.1
0-Aug-06         17.4         0.70         2.5         10         60.98 (18)         10 </th <td>0-Aug-06         17.4         0.70         2.5         10         079818-018           2-Jul-06         2.21         0.014         0.050         10         073786-018           7-Oct-05         2.92         0.017         0.050         10         072277-018           2-Jan-06         2.67         0.085         0.25         10         83, J         073704-018           2-May-06         2.77         0.14         0.50         10         077289-018         077289-018           1-Aug-06         2.77         0.070         0.25         10         079805-018         079805-018</td> <td>NI</td> <td>09-May-06</td> <td>25.2</td> <td>0.14</td> <td>0.50</td> <td>10</td> <td>В</td> <td></td> <td>077300-018</td> <td>EPA 353.1</td>	0-Aug-06         17.4         0.70         2.5         10         079818-018           2-Jul-06         2.21         0.014         0.050         10         073786-018           7-Oct-05         2.92         0.017         0.050         10         072277-018           2-Jan-06         2.67         0.085         0.25         10         83, J         073704-018           2-May-06         2.77         0.14         0.50         10         077289-018         077289-018           1-Aug-06         2.77         0.070         0.25         10         079805-018         079805-018	NI	09-May-06	25.2	0.14	0.50	10	В		077300-018	EPA 353.1
2-Jul-06         2.21         0.014         0.050         10         70	2-Jul-06 2.21 0.014 0.050 10 079786-018 7-Oct-05 2.92 0.017 0.050 10 072277-018 7-Oct-05 2.67 0.085 0.25 10 B3, J 073704-018 7-May-06 2.77 0.14 0.50 10 0.25 10 07389-018 1-Aug-06 2.77 0.070 0.25 10 070805-018	то	10-Aug-06	17.4	0.70	2.5	10			079818-018	EPA 353.1
7-Oct-05         2.92         0.017         0.050         10         B3, J         072277-018           2-Jan-06         2.67         0.085         0.25         10         B3, J         073704-018           2-May-06         2.77         0.14         0.50         10         077289-018           1-Aug-06         2.77         0.070         0.25         10         079805-018	7-Oct-05 2.92 0.017 0.050 10 072277-018 2-Jan-06 2.67 0.085 0.25 10 B3,J 073704-018 2-May-06 2.77 0.14 0.50 10 0.25 10 077289-018 1-Aug-06 2.77 0.070 0.25 10 0725 0.18	%-0-3 <b>RI</b> I	12-Jul-06	2.21	0.014	0.050	10			079786-018	EPA 353.1
2-Jan-06 2.67 0.085 0.25 10 B3, J 073704-018 0.74 0.50 10 0.55 10 077289-018 1-Aug-06 2.77 0.070 0.25 10 0.25 10 0.50 0.59 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	2-Jan-06 2.67 0.085 0.25 10 B3, J 073704-018   -May-06 2.77 0.14 0.50 10   0.25 10 079805-018   079805-018	<b>D</b> WYO-4	27-Oct-05	2.92	0.017	0.050	10			072277-018	EPA 353.1
2-May-06 2.77 0.14 0.50 10 70 0.50 0.7289-018 0.7289-018 0.7289-018 0.7289-018 0.7289-018 0.7289-018 0.7289-018	2-May-06 2.77 0.14 0.50 10 0 0 077289-018 0 0778-018 0 079805-018 0 07	R	12-Jan-06	2.67	0.085	0.25	10			073704-018	EPA 353.1
1-Aug-06 2.77 0.070 0.25 10 0.79805-018	1-Aug-06 2.77 0.070 0.25 10 0079805-018	EP(	02-May-06	2.77	0.14	0.50	10			077289-018	EPA 353.1
	Fiscal Year 2006	OR'	01-Aug-06	2.77	0.070	0.25	10			079805-018	EPA 353.1

## Table TAG E-4 Summary of Anion Results Tijeras Arroyo Groundwater Investigation

### Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL⁴ (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
Bromide	nide	0.194	0.066	0.200	N	7		079777-016	SW846-9056
Chloride	ride	13.2	0.066	0.200	NE	В		079777-016	SW846-9056
Fluoride	ride	0.180	0.033	0.100	4	В	В, ВЗ, Ј	079777-016	SW846-9056
Sulfate	ate	6.09	1.0	4.0	빙	В		079777-016	SW846-9056
Bromide	nide	0.196	0.066	0.200	빙	7		079812-016	SW846-9056
Chloride	ride	15.7	0.066	0.200	빙			079812-016	SW846-9056
Fluoride	ride	0.450	0.033	0.100	4			079812-016	SW846-9056
Sulfate	ate	77.2	0.500	2.0	빙			079812-016	SW846-9056
Bromide	nide	0.161	0.066	0.200	빙	7		079779-016	SW846-9056
Chloride	ride	13.6	0.066	0.200	빙			079779-016	SW846-9056
Fluoride	ride	0.413	0.033	0.100	4			079779-016	SW846-9056
Sulfate	ate	77.9	0.500	2.0	Ŋ			079779-016	SW846-9056
Bromide	nide	3.10	0.066	0.200	Ŋ			079803-016	SW846-9056
Chloride	ride	243	1.32	4.0	Ŋ			079803-016	SW846-9056
Fluoride	ride	0.253	0.033	0.100	4			079803-016	SW846-9056
Sulfate	ate	431	2.0	8.0	빙			079803-016	SW846-9056
Bromide	nide	0.160	0.066	0.200	빙	7		079792-016	SW846-9056
Chloride	ride	14.8	0.066	0.200	Ŋ			079792-016	SW846-9056
Fluoride	ride	0.391	0.033	0.100	4			079792-016	SW846-9056
Sulfate	ate	54.8	1.0	4.0	빙			079792-016	SW846-9056
Bromide	nide	0.161	0.066	0.200	빙	7		079782-016	SW846-9056
Chloride	ride	10.4	0.066	0.200	빙	В		079782-016	SW846-9056
Fluoride	ride	0.315	0.033	0.100	4	В	В, ВЗ, Ј	079782-016	SW846-9056
Sulfate	ate	92.2	1.0	4.0	빙	В		079782-016	SW846-9056
Bromide	nide	1.21	990.0	0.200	빙			079796-016	SW846-9056
Chloride	ride	94.3	0.000	2.0	N	В		079796-016	SW846-9056
Fluoride	ride	0.331	0.033	0.100	4	В	В, ВЗ, Ј	079796-016	SW846-9056
Sulfate	ate	189	1.0	4.0	빙	В		079796-016	SW846-9056
Bromide	nide	2.46	0.066	0.200	빙			079807-016	SW846-9056
Chloride	ride	201	1.32	4.0	빙			079807-016	SW846-9056
Fluoride	ride	0.277	0.033	0.100	4			079807-016	SW846-9056
Sulfate	ate	657	2.0	8.0	빙			079807-016	SW846-9056
Bromide	nide	1.10	0.066	0.200	NE			079788-016	SW846-9056
Chloride	ride	82.4	0.660	2.0	NE			079788-016	SW846-9056
Fluoride	ride	0.329	0.033	0.100	4			079788-016	SW846-9056
Culfoto		701							0 0 0 0 0 0

**APPENDICES** 

## Table TAG E-4 Summary of Anion Results Tijeras Arroyo Groundwater Investigation

Bromide         0.421         0.066         0.200         NE         B         0/73775-016           Chloride         2.51         0.660         2.0         NE         B         0/73775-016           Sulfate         1.35         0.100         0.400         NE         B         0/73775-016           Sulfate         1.35         0.100         0.400         NE         B         0/73775-016           Chloride         0.318         0.033         0.100         A         NE         0/73801-016           Flucride         0.318         0.033         0.100         A         NE         0/73801-016           Sulfate         0.370         0.066         0.200         NE         0/73801-016           Flucride         0.380         0.030         0.100         A         0         0/73801-016           Sulfate         0.380         0.030         0.100         A         0         0/7381-016           Sulfate         0.580         0.030         0.100         A         0         0/7381-016           Sulfate         0.580         0.030         0.100         A         0/7381-016           Chloride         0.580         0.00         0.00 <th>Well ID</th> <th>Analyte</th> <th>Result<sup>a</sup> (mg/L)</th> <th>MDL<sup>b</sup> (mg/L)</th> <th>PQL° (mg/L)</th> <th>MCL<sup>d</sup> (mg/L)</th> <th>Laboratory Validation Qualifier Qualifier</th> <th>Validation Qualifier<sup>f</sup></th> <th>Sample No.</th> <th>Analytical Method<sup>g</sup></th>	Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Validation Qualifier Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
Chloride         251         0.660         2.0         NE         B         079775-016           Fluoride         1.35         0.100         0.400         NE         B         079775-016           Sulfate         1.45         0.100         0.200         NE         B         07975-016           Sulfate         1.45         0.066         0.200         NE         B         07980-1.016           Chloride         990         0.666         2.0         NE         0.7980-1.016         07980-1.016           Fluoride         997         0.037         0.100         A         NE         0.7980-1.016           Chloride         0.88         0.660         2.0         NE         0.7980-1.016           Chloride         0.88         0.660         2.0         NE         0.7980-1.016           Sulfate         1.88         0.660         2.0         NE         0.7981-0.16           Fluoride         1.88         0.660         2.0         NE         0.7981-0.16           Fluoride         1.89         0.660         2.0         NE         0.7981-0.16           Choride         1.28         0.066         0.200         NE         0.7981-0.16 <td></td> <td>Bromide</td> <td>0.421</td> <td>0.066</td> <td>0.200</td> <td>N</td> <td></td> <td></td> <td>079775-016</td> <td>SW846-9056</td>		Bromide	0.421	0.066	0.200	N			079775-016	SW846-9056
Fluoride         0.454         0.033         0.100         A         B         0/39775-016           Buildate         1.15         0.106         0.2400         NE         B         0/73775-016           Bromide         1.95         0.066         0.200         NE         B         0/73801-016           Chloride         0.910         0.066         0.200         NE         0/73801-016         0/73801-016           Sulfate         0.970         0.066         0.200         NE         0/73801-016         0/73801-016           Fluoride         0.88         0.666         0.200         NE         0/73801-016         0/73801-016           Fluoride         0.88         0.666         0.200         NE         0/73801-016         0/73801-016           Fluoride         0.88         0.066         0.200         NE         0/73801-016         0/73801-016           Chloride         0.283         0.033         0.100         4         0         0/73801-016         0/73801-016           Sulfate         0.310         0.066         0.200         NE         0         0/73801-016         0/73801-016           Sulfate         0.310         0.066         0.200         NE	TA2-SW1-320	Chloride	25.1	0.660	2.0	N	В		079775-016	SW846-9056
Sulfate         13.5         0.100         0.400         NE         B         079775-016           Bromide         1.45         0.066         2.020         NE         0.0280         0.07801-016           Chloride         99.0         0.066         2.0         NE         0.73801-016         0.73801-016           Sulfate         4.0         1.0         4.0         NE         0.73801-016         0.73801-016           Bromide         68.8         0.066         2.0         NE         NE         0.73801-016           Alloride         68.8         0.066         2.0         NE         0.73801-016         0.73801-016           Sulfate         6.75         1.0         4.0         NE         0.73801-016         0.73801-016           Sulfate         6.75         1.0         4.0         NE         0.73801-016         0.73801-016           Chloride         0.203         0.100         4         NE         0.73801-016         0.73801-016           Sulfate         1.1         0.660         0.200         NE         0.73801-016         0.73801-016           Chloride         1.2         0.066         0.200         NE         0.73801-016         0.73801-016	90-Jul-06	Fluoride	0.454	0.033	0.100	4	В		079775-016	SW846-9056
Bromide         145         0.066         0.200         NB         079801-016           Chloride         0.318         0.066         0.20         NB         079801-016           Fluoride         0.318         0.066         0.20         NB         079801-016           Bromide         0.389         0.066         2.0         NB         079801-016           Chloride         0.389         0.039         0.100         A         NB         079801-016           Chloride         0.389         0.036         0.200         NB         079801-016         079801-016           Sulfate         0.389         0.033         0.100         A         A         079801-016         079801-016           Sulfate         0.280         0.030         0.060         0.200         NB         079801-016         079801-016           Sulfate         0.280         0.060         0.200         NB         079801-016         079801-016         079801-016           Sulfate         0.310         0.066         0.200         NB         0.09801-016         079801-016         079801-016           Chloride         0.310         0.033         0.100         4         079801-016         079801-016		Sulfate	13.5	0.100	0.400	빙	В		079775-016	SW846-9056
Chloride         99 0         0.660         2 0         NE         079801-016           Fluoride         6.318         0.033         0.100         4         079801-016           Bromide         6.970         0.066         0.200         NE         079801-016           Bromide         0.970         0.066         0.200         NE         079801-016           Chloride         0.369         0.0369         0.0369         0.0369         0.0369         0.0369           Sulfate         0.369         0.066         2.00         NE         0.79816-016         0.79816-016           Sulfate         152         0.066         0.200         NE         0.79816-016         0.79816-016           Fluoride         152         0.066         0.200         NE         0.79816-016         0.79816-016           Chloride         1,52         0.066         2.0         NE         0.79816-016         0.79816-016           Chloride         1,1         0.660         2.0         NE         0.79816-016         0.79816-016           Chloride         1,1         0.660         2.0         NE         0.79816-016         0.79816-016           Chloride         1,1         0.660		Bromide	1.45	990.0	0.200	Ŋ			079801-016	SW846-9056
Fluoride         0.318         0.033         0.100         4         0.79801-016           Sulfaste         4.0         NE         0.79801-016         0.79801-016           Sulfaste         0.370         0.10         4.0         NE         0.79816-016           Chloride         68.8         0.660         2.0         NE         0.79816-016           Fluoride         0.389         0.033         0.100         4         0.79816-016           Bromide         1.8         0.066         0.200         NE         0.79816-016           Bromide         0.293         0.060         0.200         NE         0.79816-016           Sulfate         0.294         1.0         4.0         NE         0.79816-016           Fluoride         0.293         0.060         0.200         NE         0.79816-016           Sulfate         0.391         0.066         0.200         NE         0.79816-016           Chloride         0.391         0.066         0.200         NE         0.79816-016           Sulfate         0.391         0.060         0.200         NE         0.79816-016           Chloride         0.352         0.060         0.200         NE	TA2-W-01	Chloride	0.66	0.660	2.0	Ŋ			079801-016	SW846-9056
Sulfate         44.0         1.0         4.0         NE         078901-016           Bromride         0.970         0.066         0.200         NE         078916-016           Bromride         68.8         0.660         2.00         A         D         0.78816-016           Fluoride         68.8         0.660         0.010         A         D         0.78816-016           Bromide         1.8         0.066         0.200         NE         D         0.78816-016           Chloride         1.8         0.066         0.20         NE         D         0.78816-016           Chloride         1.50         0.660         2.0         NE         D         0.78816-016           Fluoride         0.283         0.033         0.100         NE         D         0.78816-016           Chloride         1.52         0.066         0.200         NE         D         0.78816-016           Chloride         1.52         0.066         0.200         NE         D         0.78816-016           Chloride         1.11         0.660         0.200         NE         D         0.78816-016           Sulfate         0.381         0.033         0.030	25-Jul-06	Fluoride	0.318	0.033	0.100	4			079801-016	SW846-9056
Bromide         0.970         0.066         0.200         NE         078816-016           Chloride         6.88         0.066         0.20         A         0<		Sulfate	44.0	1.0	4.0	N			079801-016	SW846-9056
Chloride         68.8         0.660         2.0         NE         078816-016           Fluoride         0.0389         0.0100         4         0         078816-016           Sulfrate         57.5         1.0         4.0         NE         078816-016           Bromide         1.88         0.066         0.200         NE         078810-016           Chloride         0.283         0.033         0.100         A         0         078810-016           Fluoride         0.284         1.0         4.0         NE         078810-016         078810-016           Sulfate         0.310         0.066         0.200         NE         078810-016         078810-016           Chloride         1.1         0.066         0.200         NE         078810-016         078910-016           Sulfate         0.310         0.033         0.100         A         078910-016         078910-016           Fluoride         0.353         0.033         0.100         A         078910-016         078910-016           Sulfate         0.353         0.033         0.100         A         078910-016         078910-016           Chloride         0.382         0.033         0.100 <td></td> <td>Bromide</td> <td>0.970</td> <td>0.066</td> <td>0.200</td> <td>NE</td> <td></td> <td></td> <td>079816-016</td> <td>SW846-9056</td>		Bromide	0.970	0.066	0.200	NE			079816-016	SW846-9056
Fluoride         0.389         0.033         0.100         4         Proprint           Suffate         57.5         1.0         4.0         NE         0.79816-016           Bormide         1.8         0.066         0.200         NE         0.79810-016           Chloride         1.50         0.066         2.0         NE         0.79810-016           Fluoride         0.283         0.033         0.100         NE         0.79810-016           Sulfate         2.84         1.0         4.0         NE         0.79810-016           Sulfate         1.52         0.066         0.200         NE         0.79810-016           Chloride         1.11         0.660         0.200         NE         0.79790-016           Sulfate         0.310         0.033         0.100         A         0.79790-016           Chloride         0.340         0.066         0.200         NE         0.79790-016           Chloride         0.174         0.066         0.200         NE         D         0.79790-016           Chloride         0.174         0.066         0.200         NE         J         0.79799-016           Chloride         0.174         0.066 </td <td>TA2-W-19</td> <td>Chloride</td> <td>68.8</td> <td>0.660</td> <td>2.0</td> <td>NE</td> <td></td> <td></td> <td>079816-016</td> <td>SW846-9056</td>	TA2-W-19	Chloride	68.8	0.660	2.0	NE			079816-016	SW846-9056
Sulfate         57.5         1.0         4.0         NE         7.9816-016           Bromide         1.88         0.066         0.200         NE         0.79816-016           Bromide         1.88         0.066         2.0         NE         0.79810-016           Fluoride         0.283         0.033         0.100         4         0.78810-016           Sulfate         2.84         1.0         4.0         NE         0.79810-016           Bromide         1.52         0.066         0.200         NE         0.79810-016           Bromide         0.391         0.100         4.0         NE         0.79810-016           Sulfate         0.391         0.060         0.200         NE         0.79810-016           Bromide         0.391         0.060         0.200         NE         0.79814-016           Cluoride         68.7         0.06         0.200         NE         0.79814-016           Sulfate         62.9         1.0         4.0         NE         0.79814-016           Bromide         0.378         0.000         NE         D.79814-016           Alloride         0.382         0.100         A         D.79822-016	08-Aug-06	Fluoride	0.369	0.033	0.100	4			079816-016	SW846-9056
Bromide         1.88         0.066         0.200         NE         0.79810-016           Chloride         C.293         0.066         2.0         NE         0.79810-016           Sulfate         2.84         1.0         4.0         NE         0.79810-016           Sulfate         2.84         1.0         4.0         NE         0.79810-016           Bromide         1.52         0.066         0.200         NE         0.79730-016           Chloride         1.11         0.066         0.200         NE         0.79730-016           Sulfate         1.0         4.0         NE         0.79730-016           Sulfate         0.391         0.066         0.200         NE         0.79730-016           Chloride         0.353         0.100         4.0         NE         0.79730-016           Sulfate         0.375         0.066         0.200         NE         0.79814-016           Sulfate         0.378         0.100         4.0         NE         0.79730-016           Sulfate         0.378         0.100         4.0         NE         0.79730-016           Chloride         0.378         0.100         4.0         NE         0.79730-016		Sulfate	57.5	1.0	4.0	Ŋ			079816-016	SW846-9056
Chloride         150         0.660         2.0         NE         079810-016           Fluoride         0.283         0.033         0.100         4         079810-016           Sulfate         284         1.0         NE         079810-016           Bromide         1.52         0.066         0.200         NE         079790-016           Chloride         1.11         0.060         2.0         NE         079790-016           Fluoride         0.310         0.033         0.100         A         079790-016           Pluoride         0.391         0.066         2.0         NE         079790-016           Sulfate         0.353         0.033         0.100         A         079814-016           Sulfate         6.2.9         1.0         A         NE         079814-016           Sulfate         6.2.9         1.0         A         NE         079814-016           Sulfate         6.7.2         1.0         A         NE         079814-016           Sulfate         6.7.2         1.0         A         NE         079822-016           Sulfate         6.7.2         1.0         A         NE         N         079799-016 <td></td> <td>Bromide</td> <td>1.88</td> <td>0.066</td> <td>0.200</td> <td>NE</td> <td></td> <td></td> <td>079810-016</td> <td>SW846-9056</td>		Bromide	1.88	0.066	0.200	NE			079810-016	SW846-9056
Fluoride         0.293         0.033         0.100         4         079810-016           Sulfate         284         1.0         4.0         NE         079810-016           Sulfate         1.5         0.066         0.200         NE         079790-016           Bromide         0.310         0.033         0.100         4         079790-016           Fluoride         0.310         0.033         0.100         4         079790-016           Sulfate         1.0         4.0         NE         079790-016           Romide         0.353         0.066         0.200         NE         079814-016           Bromide         0.353         0.033         0.100         4         079814-016           Sulfate         52.9         1.0         4.0         NE         079814-016           Bromide         0.378         0.066         0.200         NE         N         079799-016           Sulfate         67.2         1.0         4.0         NE         H         HT, J         079799-016           Sulfate         0.382         0.066         0.200         NE         H         HT, J         079799-016           Sulfate         0.166	TA2-W-26	Chloride	150	0.660	2.0	N			079810-016	SW846-9056
Sulfate         284         1.0         4.0         NE         079810-016           Bromide         1.52         0.066         0.200         NE         079790-016           Chloride         1.15         0.066         0.200         NE         079790-016           Fluoride         0.31         0.033         0.003         0.006         0.200         NE         079790-016           Sulfate         0.991         0.066         0.200         NE         079814-016         079814-016           Chloride         6.87         0.066         0.200         NE         079814-016         079814-016           Fluoride         0.144         0.066         0.200         NE         079814-016         079799-016           Sulfate         0.144         0.066         0.200         NE         J         079799-016           Chloride         0.382         0.033         0.100         4         079799-016         079799-016           Sulfate         67.2         1.0         4.0         NE         H         HT, J         079799-016           Fluoride         0.376         0.066         0.200         NE         H         HT, J         079799-016           S	02-Aug-06	Fluoride	0.293	0.033	0.100	4			079810-016	SW846-9056
Bromide         1.52         0.066         0.200         NE         079790-016           Chloride         111         0.660         2.0         NE         079790-016           Fluoride         0.310         0.033         0.100         4         079790-016           Fluoride         145         1.0         4.0         NE         079790-016           Bromide         0.991         0.066         2.0         NE         079814-016           Chloride         0.353         0.033         0.100         4         079814-016           Sulfate         0.353         0.033         0.100         4         079814-016           Sulfate         0.382         0.033         0.100         4         079814-016           Bromide         0.174         0.066         0.200         NE         N         07989-016           Sulfate         67.2         1.0         4         079799-016         079799-016         079799-016           Sulfate         0.378         0.066         0.200         NE         H         HT, J         079822-016           Chloride         17.5         0.066         0.200         NE         H         07992-016           <		Sulfate	284	1.0	4.0	NE			079810-016	SW846-9056
Chloride         111         0.660         2.0         NE         079790-016           Fluoride         0.310         0.033         0.100         4         079790-016           Sulfate         1.45         1.0         4.0         NE         079790-016           Sulfate         0.991         0.066         2.0         NE         079814-016           Chloride         68.7         0.660         2.0         NE         079814-016           Chloride         6.353         0.033         0.100         4         079814-016           Sulfate         62.9         1.0         4.0         NE         J         079814-016           Chloride         12.7         0.066         0.200         NE         J         079799-016           Chloride         12.7         0.066         0.200         NE         J         079799-016           Sulfate         67.2         1.0         4         NE         H         HT, J         079799-016           Chloride         0.378         0.066         0.200         NE         H         HT, J         079822-016           Sulfate         17.5         0.100         0.40         H         HT, J		Bromide	1.52	0.066	0.200	NE			079790-016	SW846-9056
Fluoride         0.310         0.033         0.100         4         079790-016           Sulfate         145         1.0         4.0         NE         079790-016           Bromide         0.991         0.066         0.200         NE         079814-016           Chloride         68.7         0.066         0.200         NE         079814-016           Fluoride         0.353         0.033         0.100         A         079814-016           Sulfate         52.9         1.0         4.0         NE         079814-016           Chloride         0.174         0.066         0.200         NE         079814-016           Chloride         0.382         0.033         0.100         4         079799-016           Fluoride         0.382         0.033         0.100         4         079799-016           Sulfate         67.2         1.0         4.0         NE         H         HT, J         079822-016           Chloride         0.378         0.066         0.200         NE         H         HT, J         079822-016           Chloride         0.378         0.066         0.200         NE         H         HT, J         079822-016	TA2-W-27	Chloride	111	0.660	2.0	NE			079790-016	SW846-9056
Sulfate         145         1.0         4.0         NE         079790-016           Bromide         0.991         0.066         0.200         NE         078914-016           Chloride         68.7         0.660         2.0         NE         079814-016           Chloride         0.353         0.033         0.100         4         079814-016           Sulfate         52.9         1.0         4.0         NE         079814-016           Bromide         0.174         0.066         0.200         NE         079799-016           Chloride         0.382         0.033         0.100         4         079799-016           Fluoride         67.2         1.0         4.0         NE         H         HT, J         079799-016           Sulfate         0.378         0.066         0.200         NE         H         HT, J         079822-016           Chloride         18.9         0.132         0.400         NE         H         HT, J         079822-016           Fluoride         0.378         0.066         0.200         NE         H         HT, J         079822-016           Fluoride         0.166         0.033         0.100         NE <td>17-Jul-06</td> <td>Fluoride</td> <td>0.310</td> <td>0.033</td> <td>0.100</td> <td>4</td> <td></td> <td></td> <td>079790-016</td> <td>SW846-9056</td>	17-Jul-06	Fluoride	0.310	0.033	0.100	4			079790-016	SW846-9056
Bromide         0.991         0.066         0.200         NE         079814-016           Chloride         68.7         0.660         2.0         NE         079814-016           Fluoride         68.7         0.660         2.0         NE         079814-016           Fluoride         0.353         0.003         0.100         4         079814-016           Bromide         0.174         0.066         0.200         NE         J         079799-016           Chloride         0.382         0.033         0.100         4         D         079799-016           Sulfate         0.382         0.033         0.100         NE         H         HT, J         079799-016           Sulfate         0.378         0.066         0.200         NE         H         HT, J         079822-016           Chloride         18.9         0.132         0.400         NE         H         HT, J         079822-016           Sulfate         0.166         0.200         NE         J         079734-016         079734-016           Sulfate         0.168         0.066         0.200         NE         J         079734-016           Sulfate         0.106         0		Sulfate	145	1.0	4.0	NE			079790-016	SW846-9056
Chloride         68.7         0.660         2.0         NE         079814-016           Fluoride         0.353         0.033         0.100         4         079814-016           Sulfate         52.9         1.0         4.0         NE         J         079814-016           Bromide         0.174         0.066         0.200         NE         J         079794-016           Chloride         1.2.7         0.066         0.200         NE         H         HT, J         079794-016           Sulfate         67.2         1.0         4.0         NE         H         HT, J         079794-016           Sulfate         0.378         0.066         0.200         NE         H         HT, J         079822-016           Chloride         0.378         0.066         0.200         NE         H         HT, J         079822-016           Sulfate         0.168         0.066         0.200         NE         J         079734-016           Sulfate         0.168         0.200         NE         J         079734-016           Sulfate         0.404         0.033         0.100         4         079734-016           Chloride         0.204		Bromide	0.991	0.066	0.200	NE			079814-016	SW846-9056
Fluoride         0.353         0.003         0.000         4         0.000         10 <td>TJA-2</td> <td>Chloride</td> <td>68.7</td> <td>0.660</td> <td>2.0</td> <td>NE</td> <td></td> <td></td> <td>079814-016</td> <td>SW846-9056</td>	TJA-2	Chloride	68.7	0.660	2.0	NE			079814-016	SW846-9056
Sulfate         52.9         1.0         4.0         NE         J         079814-016           Bromide         0.174         0.066         0.200         NE         J         079799-016           Chloride         12.7         0.066         0.200         NE         D         079799-016           Fluoride         0.382         0.033         0.100         4         D         07979-016           Sulfate         67.2         1.0         4.0         NE         H         HT, J         07979-016           Chloride         0.378         0.066         0.200         NE         H         HT, J         07982-016           Chloride         0.416         0.033         0.100         4         07982-016         07982-016           Sulfate         17.5         0.100         0.400         NE         J         07979-016           Chloride         14.5         0.066         0.200         NE         J         07979-016           Fluoride         0.404         0.033         0.100         0.200         NE         D         07979-016           Fluoride         0.404         0.033         0.100         0.200         NE         D         07979	07-Aug-06	Fluoride	0.353	0.033	0.100	4			079814-016	SW846-9056
Bromide         0.174         0.066         0.200         NE         J         07999-016           Chloride         12.7         0.066         0.200         NE         0.79799-016           Fluoride         0.382         0.033         0.100         4         0.79799-016           Sulfate         67.2         1.0         4.0         NE         H         HT, J         0.79790-016           Bromide         0.378         0.066         0.200         NE         H         HT, J         0.7982-016           Chloride         18.9         0.132         0.400         NE         H         HT, J         0.7982-016           Sulfate         0.216         0.000         0.400         NE         J         0.7982-016           Bromide         0.168         0.066         0.200         NE         J         0.79794-016           Chloride         14.5         0.066         0.200         NE         J         0.79794-016           Fluoride         0.33         0.100         0.80         0.200         NE         D         0.79794-016           Sulfate         57.3         1.0         4.0         NE         D         0.79794-016		Sulfate	52.9	1.0	4.0	NE			079814-016	SW846-9056
Chloride         12.7         0.066         0.200         NE         07999-016           Fluoride         0.382         0.033         0.100         4         079799-016           Sulfate         67.2         1.0         4.0         NE         H         HT, J         07979-016           Bromide         0.378         0.066         0.200         NE         H         HT, J         07982-016           Chloride         18.9         0.132         0.400         NE         H         HT, J         07982-016           Sulfate         0.416         0.033         0.100         0.400         NE         D         07973-016           Bromide         0.168         0.066         0.200         NE         J         07974-016           Chloride         14.5         0.066         0.200         NE         J         07974-016           Fluoride         0.404         0.033         0.100         A         07979-016         07979-016           Sulfate         57.3         1.0         A.0         NE         A         07979-016         07979-016		Bromide	0.174	0.066	0.200	NE	ſ		079799-016	SW846-9056
Fluoride         0.382         0.033         0.100         4         07999-016           Sulfate         67.2         1.0         4.0         NE         H         HT, J         079799-016           Bromide         0.378         0.066         0.200         NE         H         HT, J         079822-016           Chloride         18.9         0.132         0.400         NE         H         HT, J         079822-016           Fluoride         0.416         0.033         0.100         4         079822-016         079822-016           Sulfate         17.5         0.100         0.400         NE         J         079794-016           Chloride         0.168         0.066         0.200         NE         J         079794-016           Fluoride         0.404         0.033         0.100         4         079794-016         079794-016           Sulfate         57.3         1.0         4.0         NE         079794-016         079794-016	TJA-3	Chloride	12.7	0.066	0.200	NE			079799-016	SW846-9056
Sulfate         67.2         1.0         4.0         NE         H         HT, J         079799-016           Bromide         0.378         0.066         0.200         NE         H         HT, J         079822-016           Chloride         18.9         0.132         0.400         NE         H         HT, J         079822-016           Fluoride         0.416         0.033         0.100         4         079822-016         079822-016           Sulfate         17.5         0.100         0.400         NE         J         079794-016           Chloride         0.404         0.033         0.100         A         079794-016         079794-016           Fluoride         0.73         0.006         0.200         NE         A         079794-016           Sulfate         57.3         1.0         NE         NE         079794-016         079794-016	24-Jul-06	Fluoride	0.382	0.033	0.100	4			079799-016	SW846-9056
Bromide         0.378         0.066         0.200         NE         H         HT, J         079822-016           Chloride         18.9         0.132         0.400         NE         H         HT, J         079822-016           Fluoride         0.416         0.033         0.100         4         079822-016         079822-016           Sulfate         17.5         0.100         0.400         NE         J         07973-016           Bromide         0.168         0.066         0.200         NE         J         07973-016           Chloride         14.5         0.066         0.200         NE         07973-016           Fluoride         0.404         0.033         0.100         4         07973-016           Sulfate         57.3         1.0         NE         NE         07979-016		Sulfate	67.2	1.0	4.0	NE			079799-016	SW846-9056
Chloride         18.9         0.132         0.400         NE         079822-016           Fluoride         0.416         0.033         0.100         4         079822-016           Sulfate         17.5         0.100         0.400         NE         J         07973-016           Bromide         0.168         0.066         0.200         NE         J         07979-016           Chloride         14.5         0.066         0.200         NE         07979-016           Fluoride         0.404         0.033         0.100         4         07979-016           Sulfate         57.3         1.0         NE         NE         07979-016		Bromide	0.378	990.0	0.200	N	I	L ,TH	079822-016	SW846-9056
Fluoride         0.416         0.033         0.100         4         079822-016           Sulfate         17.5         0.100         0.400         NE         0         079794-016           Bromide         0.168         0.066         0.200         NE         J         079794-016           Chloride         14.5         0.066         0.200         A         079794-016         079794-016           Fluoride         0.404         0.033         0.100         A         079794-016         079794-016           Sulfate         57.3         1.0         4.0         NE         079794-016         079794-016	TJA-4	Chloride	18.9	0.132	0.400	NE			079822-016	SW846-9056
Sulfate         17.5         0.100         0.400         NE         J         079822-016           Bromide         0.168         0.066         0.200         NE         J         079794-016           Chloride         14.5         0.066         0.200         NE         079794-016           Fluoride         0.404         0.033         0.100         4         079794-016           Sulfate         57.3         1.0         4.0         NE         079794-016	14-Aug-06	Fluoride	0.416	0.033	0.100	4			079822-016	SW846-9056
Bromide         0.168         0.066         0.200         NE         J         079794-016           Chloride         14.5         0.066         0.200         NE         079794-016         079794-016           Fluoride         0.404         0.033         0.100         4         079794-016         079794-016           Sulfate         57.3         1.0         4.0         NE         079794-016         079794-016		Sulfate	17.5	0.100	0.400	NE			079822-016	SW846-9056
Chloride         14.5         0.066         0.200         NE         079794-016           Fluoride         0.404         0.033         0.100         4         079794-016           Sulfate         57.3         1.0         4.0         NE         079794-016		Bromide	0.168	0.066	0.200	NE	ſ		079794-016	SW846-9056
Fluoride         0.404         0.033         0.100         4         0.79794-016         3           Sulfate         57.3         1.0         4.0         NE         079794-016         3	TJA-6	Chloride	14.5	0.066	0.200	NE			079794-016	SW846-9056
Sulfate 57.3 1.0 4.0 NE 079794-016	19-Jul-06	Fluoride	0.404	0.033	0.100	4			079794-016	SW846-9056
		Sulfate	57.3	1.0	4.0	NE			079794-016	SW846-9056

## Table TAG E-4 (Concluded) Summary of Anion Results Tijeras Arroyo Groundwater Investigation

### Fiscal Year 2006

WellID	Analyte	Result <sup>a</sup> (ma/L)	MDL <sup>b</sup> (ma/L)	PQL° (ma/L)	MCL⁴ (ma/L)	Laboratory Qualifier*	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
TJA-7	Bromide	0.452	0.066	0.200	N N			079818-016	SW846-9056
10-Aug-06	Chloride	27.3	0.132	0.400	N.			079818-016	SW846-9056
	Fluoride	0.391	0.033	0.100	4			079818-016	SW846-9056
	Sulfate	17.9	0.100	0.400	N N			079818-016	SW846-9056
WYO-3	Bromide	0.166	0.066	0.200	NE	٦		079786-016	SW846-9056
12-Jul-06	Chloride	14.3	990.0	0.200	NE			079786-016	SW846-9056
	Fluoride	0.423	0.033	0.100	4			079786-016	SW846-9056
	Sulfate	79.1	1.0	4.0	N.			079786-016	SW846-9056
WYO-4	Bromide	1.21	990.0	0.200	NE			079805-016	SW846-9056
01-Aug-06	Chloride	102	0.660	2.00	NE			079805-016	SW846-9056
	Fluoride	0.379	0.033	0.100	4			079805-016	SW846-9056
	Sulfate	43.3	1.0	4.0	NE			079805-016	SW846-9056
Refer to footnotes on page 45	5.								

**APPENDICES** 

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WellID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Aluminum	0.0113	0.005	0.015	Ŋ	В, Ј	В, Ј	00-2220	SW846 3005
	Antimony	ND	0.0005	0.002	0.006	n		00-2220	SW846 3005
	Arsenic	ND	0.0015	0.005	0.01	n		00-24400	SW846 3005
	Barium	0.0573	0.0005	0.002	2			00-24400	SW846 3005
	Beryllium	ND	0.0001	0.0005	0.004	D		00-24400	SW846 3005
	Cadmium	ND	0.0001	0.001	0.005	n		00-24400	SW846 3005
	Calcium	47.7	0.02	0.1	NE	В		00-24400	SW846 3005
	Chromium	ND	0.001	0.003	0.1	n		00-777670	SW846 3005
	Cobalt	QV	0.0001	0.001	Ŋ	ס		00-24400	SW846 3005
	Copper	0.000554	0.0002	0.001	Ŋ	٦		00-24400	SW846 3005
0	Iron	0.196	0.01	0.025	Ŋ			00-777670	SW846 3005
PGS-2 06-1::1-06	Lead	ND	0.0005	0.002	NE	n		00-24400	SW846 3005
	Magnesium	10.2	0.025	0.075	NE			009777670	SW846 3005
	Manganese	ND	0.001	0.005	NE	n		009777600	SW846 3005
	Mercury	ND	0.00006	0.0002	0.002	D		00-24400	SW846 7470
	Nickel	0.0101	0.0005	0.002	NE			00-22400	SW846 3005
	Potassium	2.61	0.08	0.3	NE			00-22400	SW846 3005
	Selenium	ND	0.0025	0.005	0.05	n		600-22400	SW846 3005
	Silver	ND	0.0002	0.001	NE	n		00-22400	SW846 3005
	Sodium	26.4	0.08	0.25	NE			600-22400	SW846 3005
	Thallium	0.000832	0.0004	0.001	0.002	ſ	ВЗ, Ј	00-22400	SW846 3005
	Vanadium	0.00419	0.002	0.03	NE	ſ		00-22400	SW846 3005
	Zinc	0.00401	0.002	0.01	N	B. J	B, J	600-24400	SW846 3005

Alu		Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
-	Aluminum	0.00814	0.005	0.015	NE	В, Ј	В, Ј	079812-009	SW846 3005
AIII	Antimony	ND	0.0005	0.002	0.006	B, U		079812-009	SW846 3005
Ars	Arsenic	QN	0.0015	0.005	0.01	B, U		079812-009	SW846 3005
Bar	Barium	0.0433	0.0005	0.002	2			079812-009	SW846 3005
Ber	Beryllium	QN	0.0001	0.0005	0.004	ס		079812-009	SW846 3005
Car	Cadmium	QN	0.0001	0.001	0.005	ח		079812-009	SW846 3005
Cal	Calcium	65.0	0.2	1.0	Ŋ		٦	079812-009	SW846 3005
Ğ	Chromium	0.00135	0.001	0.003	0.1	B, J	B, J	079812-009	SW846 3005
Ö	Cobalt	0.000131	0.0001	0.001	NE	7		079812-009	SW846 3005
8	Copper	0.000946	0.0002	0.001	NE	7		079812-009	SW846 3005
Iron	u	0.291	0.01	0.025	빙			079812-009	SW846 3005
03-Aug-06 Lead	ad	QN	0.0005	0.002	빙	ס		079812-009	SW846 3005
	Magnesium	10.9	0.005	0.015	NE			079812-009	SW846 3005
Ma	Manganese	QN	0.001	0.005	Ŋ	n		079812-009	SW846 3005
Me	Mercury	QN	900000	0.0002	0.002	ס		079812-009	SW846 7470
Nic	Nickel	0.00141	0.0005	0.002	NE	ſ		079812-009	SW846 3005
Pot	Potassium	2.24	0.08	0.3	NE			079812-009	SW846 3005
Sel	Selenium	ND	0.0025	0.005	0.05	n		079812-009	SW846 3005
Silver	ver	ND	0.0002	0.001	NE	n		079812-009	SW846 3005
Soc	Sodium	25.6	0.08	0.25	NE		ſ	079812-009	SW846 3005
Th	Thallium	ND	0.0004	0.001	0.002	n		079812-009	SW846 3005
Var	Vanadium	0.00269	0.002	0.03	NE	ſ		079812-009	SW846 3005
Zinc	20	0.00314	0.002	0.01	NE	B, J	В, Ј	079812-009	SW846 3005

### Fiscal Year 2006

Well ID	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Laboratory Validation Sample No. Qualifiere Qualifier	Analytical Method <sup>g</sup>
	Aluminum	0.0708	0.005	0.015	NE			00-62260	SW846 3005
	Antimony	ND	0.0005	0.002	9000	B, U		019779-009	SW846 3005
	Arsenic	ND	0.0015	0.005	0.01	U		079779-009	SW846 3005
	Barium	0.0453	0.0005	0.002	2			019779-009	SW846 3005
	Beryllium	ND	0.0001	0.0005	0.004	n		079779-009	SW846 3005
	Cadmium	ND	0.0001	0.001	0.005	n		019779-009	SW846 3005
	Calcium	69.3	0.1	9.0	NE	В		019779-009	SW846 3005
	Chromium	0.00184	0.001	0.003	0.1	В, Ј	В, Ј	00-62460	SW846 3005
	Cobalt	0.000141	0.0001	0.001	NE	ſ		019779-009	SW846 3005
	Copper	0.00109	0.0002	0.001	NE	В	В, Ј	600-62260	SW846 3005
	Iron	0.407	0.01	0.025	NE			079779-009	SW846 3005
15-410-06	Lead	ND	0.0005	0.002	NE	U		079779-009	SW846 3005
	Magnesium	11.5	0.005	0.015	NE			079779-009	SW846 3005
	Manganese	0.00265	0.001	0.005	NE	ſ		019779-009	SW846 3005
	Mercury	ND	0.00006	0.0002	0.002	n	B3, UJ	079779-009	SW846 7470
	Nickel	0.00194	0.0005	0.002	NE	J		079779-009	SW846 3005
	Potassium	2.11	0.08	0.3	NE	В		079779-009	SW846 3005
	Selenium	ND	0.0025	0.005	0.05	U		079779-009	SW846 3005
	Silver	ND	0.0002	0.001	NE	B, U		079779-009	SW846 3005
	Sodium	22.9	0.08	0.25	NE			019779-009	SW846 3005
	Thallium	ND	0.0004	0.001	0.002	U		079779-009	SW846 3005
	Vanadium	0.00422	0.002	0.03	NE	J		079779-009	SW846 3005
	Zinc	0.00755	0.002	0.01	NE	В, Ј	В, Ј	600-62260	SW846 3005
Refer to footnotes on page 45.									

**APPENDICES** 

### Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL⁴ (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Aluminum	0.0249	0.005	0.015	NE	В	В, Ј	079803-009	SW846 3005
	Antimony	ΩN	0.0005	0.002	900'0	B, U		079803-009	SW846 3005
	Arsenic	QN	0.0015	0.005	0.01	n		079803-009	SW846 3005
	Barium	0.0273	0.0005	0.002	2			079803-009	SW846 3005
	Beryllium	QN	0.0001	0.0005	0.004	n		079803-009	SW846 3005
	Cadmium	QN	0.0001	0.001	0.005	n		079803-009	SW846 3005
	Calcium	295	0.2	1.0	IJN.	В		079803-009	SW846 3005
	Chromium	0.00166	0.001	0.003	0.1	В, Л	В, Ј	079803-009	SW846 3005
	Cobalt	0.000486	0.0001	0.001	빙	7		079803-009	SW846 3005
	Copper	0.00179	0.0002	0.001	IJ			079803-009	SW846 3005
	Iron	1.20	0.01	0.025	JN	В		079803-009	SW846 3005
1.A1-W-03 26liil-06	Lead	ΩN	0.0005	0.002	JN	n		079803-009	SW846 3005
	Magnesium	29.5	0.005	0.015	Ŋ			079803-009	SW846 3005
	Manganese	ΩN	0.001	0.005	JN	n		079803-009	SW846 3005
	Mercury	QN	0.00006	0.0002	0.002	n		079803-009	SW846 7470
	Nickel	0.00599	0.0005	0.002	JN			079803-009	SW846 3005
	Potassium	2.58	0.08	0.3	ЭN			079803-009	SW846 3005
	Selenium	0.0294	0.0025	0.005	0.05			079803-009	SW846 3005
	Silver	ΩN	0.0002	0.001	JN	n		079803-009	SW846 3005
	Sodium	47.0	0.08	0.25	NE			079803-009	SW846 3005
	Thallium	0.000498	0.0004	0.001	0.002	ŋ		079803-009	SW846 3005
	Vanadium	0.00303	0.002	0.03	NE	ſ		079803-009	SW846 3005
	Zinc	0.00506	0.002	0.01	NE	В, Ј	В, Ј	079803-009	SW846 3005
Refer to footnotes on page 45	5.								

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Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier*	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
	Aluminum	0.0206	0.005	0.015	NE	В	В, Ј	079792-009	SW846 3005
	Antimony	QN	0.0005	0.002	900'0	B, U		079792-009	SW846 3005
	Arsenic	Q	0.0015	0.005	0.01	ח		079792-009	SW846 3005
	Barium	0.0462	0.0005	0.002	2			079792-009	SW846 3005
	Beryllium	Q	0.0001	0.0005	0.004	ם		079792-009	SW846 3005
	Cadmium	QN	0.0001	0.001	0.005	ס		079792-009	SW846 3005
	Calcium	61.5	0.1	0.5	빙	В		079792-009	SW846 3005
	Chromium	0.00124	0.001	0.003	0.1	٦		079792-009	SW846 3005
	Cobalt	0.000153	0.0001	0.001	빙	٦		079792-009	SW846 3005
	Copper	0.000755	0.0002	0.001	N	ŋ		079792-009	SW846 3005
	Iron	0.341	0.01	0.025	빙			079792-009	SW846 3005
1A1-W-04 20-1ul-06	Lead	Q	0.0005	0.002	빙	n		079792-009	SW846 3005
5	Magnesium	10.3	0.005	0.015	NE			079792-009	SW846 3005
	Manganese	Q	0.001	0.005	빙	ח		079792-009	SW846 3005
	Mercury	QN	0.00006	0.0002	0.002	n		079792-009	SW846 7470
	Nickel	0.00189	0.0005	0.002	빙	٦		079792-009	SW846 3005
	Potassium	2.07	0.08	0.3	빙			079792-009	SW846 3005
	Selenium	QN	0.0025	0.005	0.05	n		079792-009	SW846 3005
	Silver	Q	0.0002	0.001	빙	ח		079792-009	SW846 3005
	Sodium	22.3	0.08	0.25	N			079792-009	SW846 3005
	Thallium	0.000668	0.0004	0.001	0.002	ſ	В3, Ј	079792-009	SW846 3005
	Vanadium	0.00293	0.002	0.03	NE	ſ		079792-009	SW846 3005
	Zinc	0.00361	0.002	0.01	빙	В, Ј	В, Ј	079792-009	SW846 3005

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Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Aluminum	0.00538	0.005	0.015	NE	B, J		079782-009	SW846 3005
	Antimony	ND	0.0005	0.002	900.0	n		079782-009	SW846 3005
	Arsenic	ND	0.0015	0.005	0.01	n		079782-009	SW846 3005
	Barium	0.0345	0.0005	0.002	2	В		079782-009	SW846 3005
	Beryllium	ND	0.0001	0.0005	0.004	ס		079782-009	SW846 3005
	Cadmium	ND	0.0001	0.001	0.005	ס		079782-009	SW846 3005
	Calcium	79.1	0.1	0.5	NE NE	В		079782-009	SW846 3005
	Chromium	ND	0.001	0.003	0.1	ס		079782-009	SW846 3005
	Cobalt	0.000224	0.0001	0.001	N N	В, Ј		079782-009	SW846 3005
	Copper	0.000977	0.0002	0.001	NE	В, Ј		079782-009	SW846 3005
1	Iron	0.351	0.01	0.025	NE	В		079782-009	SW846 3005
141-W-05	Lead	ND	0.0005	0.002	NE	n		079782-009	SW846 3005
	Magnesium	10.5	0.005	0.015	N N	В		079782-009	SW846 3005
	Manganese	ND	0.001	0.005	NE	n		079782-009	SW846 3005
	Mercury	ND	0.00006	0.0002	0.002	n	B3, UJ	079782-009	SW846 7470
	Nickel	0.00182	0.0005	0.002	NE	В, Ј		079782-009	SW846 3005
	Potassium	2.01	0.08	0.3	NE	В		079782-009	SW846 3005
	Selenium	ND	0.0025	0.005	0.05	n		079782-009	SW846 3005
	Silver	ND	0.0002	0.001	N N	ר		079782-009	SW846 3005
	Sodium	28.3	0.08	0.25	NE	В		079782-009	SW846 3005
	Thallium	0.000867	0.0004	0.001	0.002	В, Ј	В3, Ј	079782-009	SW846 3005
	Vanadium	ND	0.002	0.03	NE	n		079782-009	SW846 3005
	Zinc	0.00295	0.002	0.01	NE	В, Ј		079782-009	SW846 3005
Refer to footnotes on page 45	age 45.								

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Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Aluminum	0.00516	0.005	0.015	IJZ	В, Ј	В, Ј	600-96260	SW846 3005
	Antimony	QN	0.0005	0.002	900.0	D		600-96260	SW846 3005
	Arsenic	QN	0.0015	0.005	0.01	ם		600-96260	SW846 3005
	Barium	0.0252	0.0005	0.002	2			600-96260	SW846 3005
	Beryllium	Q	0.0001	0.0005	0.004	n		600-96260	SW846 3005
	Cadmium	Q	0.0001	0.001	0.005	n		600-96260	SW846 3005
	Calcium	128	0.2	1.0	NE	В		600-96260	SW846 3005
	Chromium	0.00131	0.001	0.003	0.1	7		600-96260	SW846 3005
	Cobalt	0.000259	0.0001	0.001	NE	7		600-96260	SW846 3005
	Copper	0.00102	0.0002	0.001	NE			600-96260	SW846 3005
	Iron	0.467	0.01	0.025	NE	В		600-96260	SW846 3005
	Lead	QN	0.0005	0.002	NE	n		600-96260	SW846 3005
	Magnesium	14.8	0.005	0.015	NE			00-962620	SW846 3005
	Manganese	QN	0.001	0.005	NE	Π		600-96260	SW846 3005
	Mercury	ND	900000	0.0002	0.002	n	B3, UJ	600-96260	SW846 7470
	Nickel	0.00226	0.0005	0.002	NE			600-96260	SW846 3005
	Potassium	1.85	0.08	0.3	NE			600-96260	SW846 3005
	Selenium	0.00775	0.0025	0.005	0.05			00-96260	SW846 3005
	Silver	QN	0.0002	0.001	NE	Π		600-96260	SW846 3005
	Sodium	28.9	0.08	0.25	NE			600-96260	SW846 3005
	Thallium	0.000732	0.0004	0.001	0.002	7	В3, Ј	600-96260	SW846 3005
	Vanadium	QN	0.002	0.03	NE	n		600-96260	SW846 3005
	Zinc	0.00306	0.002	0.01	NE	В, Ј	В, Ј	600-96260	SW846 3005
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inum         0.0191         0.005         0.015         NE           nony         ND         0.0005         0.002         0.006         U           nic         ND         0.0015         0.005         0.001         U           m         0.0224         0.0005         0.002         2         D           nium         ND         0.0001         0.0001         0.0005         U         D           nium         321         0.022         1.0         NE         B         D           nium         0.00284         0.0001         0.001         NE         D         D           nt         0.00286         0.0001         0.001         NE         D         D           nt         0.00286         0.0001         0.001         NE         D         D           nt         0.00286         0.0001         0.001         NE         D         D           nt         0.0028         0.001         0.002         NE         D         D           nt         0.0029         0.002         NE         N         D           nt         0.0026         0.002         NE         N         D	WellID	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
Antimony         ND         0,0005         0,0006         0,0006         U         D           Arsenic         ND         0,0015         0,0005         0,001         U         D           Barium         0,0224         0,0005         0,0005         0,0004         0,0005         U         D           Barium         ND         0,0001         0,0005         0,0004         0,0005         U         D           Cadcimium         ND         0,0001         0,0005         0,001         0,0005         U         D           Calcimium         0,00284         0,0001         0,0001         NE         D         D         D           Cobalt         0,00284         0,0001         0,0001         NE         D <td></td> <td>Aluminum</td> <td>0.0191</td> <td>0.005</td> <td>0.015</td> <td>NE</td> <td></td> <td></td> <td>079807-009</td> <td>SW846 3005</td>		Aluminum	0.0191	0.005	0.015	NE			079807-009	SW846 3005
Arsenic         ND         0.0015         0.005         0.01         U           Barium         0.0224         0.0005         0.004         U         D           Beryllium         ND         0.0001         0.0005         0.004         U         D           Cadmium         ND         0.0001         0.0005         U         D         D           Calcium         321         0.02         1.0         NE         B         D           Chromium         0.00284         0.0001         0.003         0.01         D         D           Copatt         0.00288         0.0001         0.001         NE         D         D           Iron         1.70         0.01         0.025         NE         D         D           Magnesium         3.8.6         0.005         0.015         NE         D         D           Manganese         ND         0.0005         0.005         NE         D         D         D           Manganesium         3.8.6         0.0005         0.005         NE         D         D           Marcury         ND         0.0005         0.005         NE         D         D <t< td=""><td></td><td>Antimony</td><td>QN</td><td>0.0005</td><td>0.002</td><td>900.0</td><td>n</td><td></td><td>079807-009</td><td>SW846 3005</td></t<>		Antimony	QN	0.0005	0.002	900.0	n		079807-009	SW846 3005
Barium         0.0224         0.0005         0.002         2           Beryllium         ND         0.0001         0.0005         0.004         U           Cadmium         ND         0.0001         0.0001         0.005         U           Cadcum         ND         0.0001         0.0001         0.005         U           Chromium         0.000284         0.0001         0.001         N         B           Cobalt         0.000283         0.0001         N         N         J           Copper         0.000283         0.0002         0.001         N         N           Iron         ND         0.0005         0.001         NE         U         N           Magnesium         38.6         0.0005         0.005         NE         U         B3, U           Mercury         ND         0.0005         0.005         N         U         B3, U           Nickel         0.00617         0.0005         0.002         U         B3, U           Nickel         0.00617         0.0005         0.002         U         B3, U           Selenium         0.0241         0.0005         0.005         U         S6, S0		Arsenic	Q	0.0015	0.005	0.01	ח		079807-009	SW846 3005
Beryllium         ND         0.0001         0.0005         0.004         U           Cadmium         ND         0.0001         0.001         0.005         U         P           Cadmium         ND         0.0001         0.001         0.005         U         P         P           Calcium         321         0.2         1.0         NE         B         B         P         P           Chromium         0.00284         0.001         0.001         NE         J         D         D         D         D         C         C         D		Barium	0.0224	0.0005	0.002	2			079807-009	SW846 3005
Cadmium         ND         0.0001         0.001         0.005         U           Calcium         321         0.2         1.0         NE         B           Chromium         0.00284         0.001         0.003         0.1         J           Cobalt         0.000586         0.0001         0.001         NE         J           Copper         0.00283         0.0002         0.001         NE         J           Iron         1.70         0.01         0.025         NE         U           Iron         1.70         0.01         0.025         NE         U           Magnesium         38.6         0.005         0.015         NE         U         B3, UJ           Mercury         ND         0.0005         0.005         NE         U         B3, UJ           Nickel         0.00617         0.0005         0.002         0.002         U         B3, UJ           Nickel         0.00617         0.0005         0.002         0.002         U         B3, UJ           Selenium         0.0241         0.0005         0.005         0.005         U         D           Sodium         69.9         0.8         2.5		Beryllium	QN	0.0001	0.0005	0.004	n		079807-009	SW846 3005
Calcitum         321         0.2         1.0         NE         B           Chromium         0.00284         0.001         0.003         0.1         J           Cobalt         0.00286         0.0001         0.001         NE         J           Copper         0.00283         0.0002         0.001         NE         J           Iron         1.70         0.01         0.025         NE         U         N           Icad         ND         0.005         0.005         NE         U         N         N           Manganese         ND         0.006         0.005         NE         U         B3, UJ         N		Cadmium	Q	0.0001	0.001	0.005	ח		079807-009	SW846 3005
Chromium         0.00284         0.001         0.003         0.1         J         P           Cobalt         0.000586         0.0001         0.001         NE         J         N           Lead         1.70         0.01         0.005         NE         N         N           Magnesium         38.6         0.005         0.015         NE         U         N           Mercury         ND         0.001         0.005         NE         U         B3, UJ           Nickel         ND         0.0006         0.0002         NE         U         B3, UJ           Nickel         0.00617         0.0005         0.002         NE         U         B3, UJ           Nickel         0.00617         0.0005         0.002         NE         U         B3, UJ           Selenium         0.0021         0.002         0.005         NE         U         ND           Sodium         69.9         0.8         2.5         NE         U         ND           Thallium         ND         0.0024         0.001         NE         U         ND           Sinc         0.0048         0.002         0.031         NE         U		Calcium	321	0.2	1.0	Ŋ	В		079807-009	SW846 3005
Cobatt         0.000586         0.0001         NE         J           Copper         0.00283         0.0002         0.001         NE         N           Iron         1.70         0.01         0.025         NE         U         N           Lead         ND         0.0005         0.002         NE         U         N         N           Magnesium         38.6         0.005         0.005         NE         U         B3, U         N           Mercury         ND         0.00066         0.0005         0.002         0.002         U         B3, U           Nickel         0.00617         0.0005         0.002         NE         U         B3, U           Selenium         0.0241         0.0025         0.005         NE         U         S0           Sodium         69:9         0.8         2.5         NE         U         N           Inalium         ND         0.002         0.03         NE         U         N           Inc         NB         0.002         0.03         N         U         N           Sodium         0.00486         0.005         0.03         J         N         N     <		Chromium	0.00284	0.001	0.003	0.1	٦		079807-009	SW846 3005
Copper         0.00283         0.0002         0.001         NE         NE           Iron         1.70         0.01         0.025         NE         U         R           Lead         ND         0.0005         0.002         NE         U         R           Manganesium         38.6         0.005         0.005         NE         U         B3, UJ           Mercury         ND         0.0006         0.0005         0.002         NE         U         B3, UJ           Nickel         0.00617         0.0005         0.002         NE         U         B3, UJ           Potassium         3.02         0.08         0.33         NE         U         B3, UJ           Selenium         0.0241         0.0025         0.005         0.05         U         B3, UJ           Silver         ND         0.0002         0.005         0.05         J         NE           Thallium         ND         0.0004         0.001         NE         U         N           Vanadium         ND         0.002         0.03         N         U         N           Zinc         0.004         0.03         0.01         N         U		Cobalt	0.000586	0.0001	0.001	Ŋ	٦		079807-009	SW846 3005
Iron         1.70         0.01         0.025         NE         U         R           Lead         ND         0.005         0.005         NE         U         R           Magnesium         38.6         0.005         0.005         NE         U         B3, UJ           Marganese         ND         0.0006         0.0002         NE         U         B3, UJ           Mercury         ND         0.0006         0.0002         NE         U         B3, UJ           Nickel         0.00617         0.0065         0.002         NE         NE         NE         NE           Potassium         3.02         0.08         0.3         NE         N         N           Selenium         ND         0.0025         0.005         NE         U         N           Sodium         69.9         0.8         2.5         NE         U         N           Vanadium         ND         0.004         0.004         0.002         J         N           Zinc         0.00483         0.01         0.01         N         J         N		Copper	0.00283	0.0002	0.001	Ŋ			079807-009	SW846 3005
Lead         ND         0.0005         0.015         NE         U         P           Magnesium         38.6         0.005         0.015         NE         U         P           Manganese         ND         0.0001         0.0005         0.0002         NE         U         B3, UJ           Nickel         0.00617         0.0005         0.002         NE         D         B3, UJ           Nickel         0.00617         0.008         0.03         NE         D         B3, UJ           Selenium         0.0241         0.0025         0.005         NE         D         D           Silver         ND         0.00025         0.001         NE         D         D           Sodium         69.9         0.8         2.5         NE         D         D           Vanadium         ND         0.002         0.03         NE         D         D           Zinc         0.00486         0.002         0.03         NE         D         D           Zinc         0.00488         0.002         0.01         NE         D         D		Iron	1.70	0.01	0.025	Ŋ			079807-009	SW846 3005
Magnesium         38.6         0.005         NE	1A1-W-08 27liil-06	Lead	QN	0.0005	0.002	NE	n		079807-009	SW846 3005
ganese         ND         0.001         0.005         NE         U         B3, UJ           ury         ND         0.0006         0.0002         0.002         U         B3, UJ           slum         0.00617         0.0005         0.002         NE         NE         N           r         ND         0.0025         0.005         NE         U         N           r         ND         0.0002         0.001         NE         U         N           r         ND         0.0002         0.001         NE         U         N           lum         0.000486         0.0004         0.001         NE         U         N           dium         ND         0.002         0.03         NE         U         N	5	Magnesium	38.6	0.005	0.015	NE			079807-009	SW846 3005
ury         ND         0.00006         0.0002         0.0002         U         B3, UJ           ssium         3.02         0.006         0.002         NE         NE         NE           nium         0.0241         0.0025         0.005         0.005         NE         U         N           r         ND         0.0002         0.001         NE         U         N         N         N           lum         0.000486         0.0004         0.001         NE         U         N		Manganese	QN	0.001	0.005	NE	n		079807-009	SW846 3005
ell         0.00617         0.0005         0.002         NE         NE           ssium         3.02         0.08         0.3         NE         NE           nium         0.0241         0.0025         0.005         0.05         N           r         ND         0.0002         0.001         NE         U         N           lum         0.000486         0.0004         0.001         0.002         J         N           dium         ND         0.002         0.03         NE         U         N           0.00483         0.002         0.01         NE         J         N		Mercury	QN	90000'0	0.0002	0.002	n	B3, UJ	079807-009	SW846 7470
ssium         3.02         0.08         0.3         NE		Nickel	0.00617	0.0005	0.002	NE			079807-009	SW846 3005
rium         0.0241         0.0025         0.005         0.005         0.005         0.001         NE         U         NE		Potassium	3.02	0.08	0.3	NE			079807-009	SW846 3005
r         ND         0.0002         0.001         NE         U         NE         U         NE         NE <th< td=""><td></td><td>Selenium</td><td>0.0241</td><td>0.0025</td><td>0.005</td><td>0.05</td><td></td><td></td><td>079807-009</td><td>SW846 3005</td></th<>		Selenium	0.0241	0.0025	0.005	0.05			079807-009	SW846 3005
Jum         69.9         0.8         2.5         NE         NE <t< td=""><td></td><td>Silver</td><td>ND</td><td>0.0002</td><td>0.001</td><td>NE</td><td>n</td><td></td><td>079807-009</td><td>SW846 3005</td></t<>		Silver	ND	0.0002	0.001	NE	n		079807-009	SW846 3005
ium         0.000486         0.000486         0.00048         0.0004         0.001         0.002         0.003         NE         U         NE         U		Sodium	6.69	0.8	2.5	N			079807-009	SW846 3005
dium ND 0.002 0.03 NE U O O O O O O O O O O O O O O O O O O		Thallium	0.000486	0.0004	0.001	0.002	ſ		079807-009	SW846 3005
0.00483 0.002 0.01 NE J		Vanadium	QN	0.002	0.03	NE	n		079807-009	SW846 3005
		Zinc	0.00483	0.002	0.01	NE	٦		079807-009	SW846 3005

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Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Aluminum	QN	0.005	0.015	Ш N	ם		079788-009	SW846 3005
	Antimony	ND	0.0005	0.002	900.0	B, U		079788-009	SW846 3005
	Arsenic	ND	0.0015	0.005	0.01	ס		079788-009	SW846 3005
	Barium	0.0437	0.0005	0.002	2			079788-009	SW846 3005
	Beryllium	ND	0.0001	0.0005	0.004	<u></u>		079788-009	SW846 3005
	Cadmium	ND	0.0001	0.001	0.005	ס		079788-009	SW846 3005
	Calcium	104	0.4	2.0	N N	В		079788-009	SW846 3005
	Chromium	0.00261	0.001	0.003	0.1	В, Ј	В, Ј	079788-009	SW846 3005
	Cobalt	0.000195	0.0001	0.001	N N	7		079788-009	SW846 3005
	Copper	0.00117	0.0002	0.001	IJN.			079788-009	SW846 3005
	Iron	0.449	0.01	0.025	NE			079788-009	SW846 3005
TA2-NW1-595 13-Jul-06	Lead	ND	0.0005	0.002	NE	Λ		079788-009	SW846 3005
	Magnesium	17.1	0.05	0.15	N.			079788-009	SW846 3005
	Manganese	ND	0.001	0.005	N N	J		079788-009	SW846 3005
	Mercury	ND	0.00006	0.0002	0.002	<b>ס</b>	B3, UJ	079788-009	SW846 7470
	Nickel	0.00158	0.0005	0.002	JN	٦		079788-009	SW846 3005
	Potassium	2.09	0.08	6.0	JN			079788-009	SW846 3005
	Selenium	0.00599	0.0025	0.005	0.05			079788-009	SW846 3005
	Silver	ND	0.0002	0.001	N N	ס		079788-009	SW846 3005
	Sodium	29.8	0.8	2.5	JN			079788-009	SW846 3005
	Thallium	ND	0.0004	0.001	0.002	n		079788-009	SW846 3005
	Vanadium	ND	0.002	0.03	NE	n		079788-009	SW846 3005
	Zinc	0.00352	0.002	0.01	N N	7		079788-009	SW846 3005

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
	Aluminum	0.222	0.005	0.015	N N			079775-009	SW846 3005
	Antimony	QN	0.0005	0.002	900.0	ר		079775-009	SW846 3005
	Arsenic	ND	0.0015	0.005	0.01	n		600-522620	SW846 3005
	Barium	0.204	0.0005	0.002	2			600-922620	SW846 3005
	Beryllium	QN	0.0001	0.0005	0.004	)		600-52260	SW846 3005
	Cadmium	QN	0.0001	0.001	0.005	ר ס		079775-009	SW846 3005
	Calcium	8.09	0.1	0.5	빙	В		079775-009	SW846 3005
	Chromium	0.00181	0.001	0.003	0.1	٦		600-522620	SW846 3005
	Cobalt	0.000179	0.0001	0.001	N.	٦		600-52260	SW846 3005
	Copper	0.000507	0.0002	0.001	빙	7		079775-009	SW846 3005
	Iron	0.412	0.01	0.025	빙			079775-009	SW846 3005
1A2-SW1-320 05-111-06	Lead	QN	0.0005	0.002	N.	n		600-522620	SW846 3005
	Magnesium	11.0	0.005	0.015	N N			600-52260	SW846 3005
	Manganese	0.0046	0.001	0.005	N.	٦		600-522620	SW846 3005
	Mercury	QN	0.00006	0.0002	0.002	ר		00-522600	SW846 7470
	Nickel	0.00105	0.0005	0.002	NE	ſ		600-922620	SW846 3005
	Potassium	1.66	0.08	0.3	NE			600-52260	SW846 3005
	Selenium	0.0027	0.0025	0.005	0.05	ſ		600-922620	SW846 3005
	Silver	QN	0.0002	0.001	N N	n		600-922620	SW846 3005
	Sodium	17.3	0.08	0.25	NE			600-922620	SW846 3005
	Thallium	0.000572	0.0004	0.001	0.002	ſ		600-52260	SW846 3005
	Vanadium	0.00545	0.002	0.03	NE	ľ		079775-009	SW846 3005
	Zinc	0.0024	0.002	0.01	N.	٦		600-922620	SW846 3005
Refer to footnotes on page 45	sage 45.								

on   Sample No.   Analytica sr <sup>¢</sup>   Method <sup>g</sup>	079801-009 SW846 3005	079801-009 SW846 3005	079801-009 SW846 3005	079801-009 SW846 7470	079801-009 SW846 3005																		
Validation Qualifier <sup>e</sup>								В, Ј														В3, Ј	B, J
Laboratory Qualifier <sup>e</sup>		B, U	ס		)	ס	В	В, Ј	7	7		ס		7	)	7			ס		٦	ר	В, Ј
MCL⁴ (mg/L)	W W	900.0	0.01	2	0.004	0.005	Ŋ	0.1	IJ.	Ŋ	Ŋ	Ŋ	Ŋ	N	0.002	NE	NE	0.05	Ŋ	Ŋ	0.002	Ŋ	N
PQL° (mg/L)	0.015	0.002	0.005	0.002	0.0005	0.001	0.5	0.003	0.001	0.001	0.025	0.002	0.015	0.005	0.0002	0.002	0.3	0.005	0.001	0.25	0.001	0.03	0.01
MDL <sup>b</sup> (mg/L)	0.005	0.0005	0.0015	0.0005	0.0001	0.0001	0.1	0.001	0.0001	0.0002	0.01	0.0005	0.005	0.001	0.00006	0.0005	0.08	0.0025	0.0002	0.08	0.0004	0.002	0.002
Resulta (mg/L)	0.036	N	N	0.143	ND	QN	81.3	0.00155	0.000179	0.000594	0.400	N	11.6	0.00277	ND	0.00171	1.68	0.00643	ND	19.1	0.000738	0.00322	0.0035
Analyte	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
Mell ID							-					TA2-W-01 25-1111-06	5										

Table TAG E-5
Summary of Total Metal Results
Tijeras Arroyo Groundwater Investigation

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Aluminum	ND	0.005	0.015	N	n		079816-009	SW846 3005
	Antimony	ND	0.0005	0.002	900.0	B, U		079816-009	SW846 3005
	Arsenic	QN	0.0015	0.005	0.01	ח		079816-009	SW846 3005
	Barium	0.0436	0.0005	0.002	2			079816-009	SW846 3005
	Beryllium	QN	0.0001	0.0005	0.004	ס		079816-009	SW846 3005
	Cadmium	QN	0.0001	0.001	0.005	ס		079816-009	SW846 3005
	Calcium	79.9	0.1	0.5	빙	В		079816-009	SW846 3005
	Chromium	0.00189	0.001	0.003	0.1	В, Ј	В, Ј	079816-009	SW846 3005
	Cobalt	0.000188	0.0001	0.001	Ŋ	В, Ј	В, Ј	079816-009	SW846 3005
	Copper	0.000748	0.0002	0.001	Ŋ	7		079816-009	SW846 3005
:	Iron	0.361	0.01	0.025	Ŋ			079816-009	SW846 3005
TA2-W-19 08-Aug-06	Lead	QN	0.0005	0.002	Ŋ	ס		079816-009	SW846 3005
	Magnesium	10.5	0.005	0.015	Ŋ	В		079816-009	SW846 3005
	Manganese	QN	0.001	0.005	NE	ח		079816-009	SW846 3005
	Mercury	ND	0.00006	0.0002	0.002	n		079816-009	SW846 7470
	Nickel	0.00108	0.0005	0.002	NE	ſ		079816-009	SW846 3005
	Potassium	1.70	0.08	0.3	NE			079816-009	SW846 3005
	Selenium	0.00402	0.0025	0.005	0.05	Ŋ		079816-009	SW846 3005
	Silver	ND	0.0002	0.001	NE	ס		079816-009	SW846 3005
	Sodium	20.3	0.08	0.25	NE			079816-009	SW846 3005
	Thallium	QN	0.0004	0.001	0.002	Π		079816-009	SW846 3005
	Vanadium	60900.0	0.002	0.03	NE	Ŋ		079816-009	SW846 3005
	Zinc	QN	0.002	0.01	NE	Π		079816-009	SW846 3005

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WellID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Aluminum	0.0207	0.005	0.015	Ŋ	В	В, Ј	079810-009	SW846 3005
	Antimony	QN	0.0005	0.002	900.0	B, U		079810-009	SW846 3005
	Arsenic	ND	0.0015	0.005	0.01	B, U		079810-009	SW846 3005
	Barium	0.067	0.0005	0.002	2			079810-009	SW846 3005
	Beryllium	ND	0.0001	0.0005	0.004	ר		079810-009	SW846 3005
	Cadmium	ND	0.0001	0.001	0.005	ר		079810-009	SW846 3005
	Calcium	182	0.2	1.0	NE		7	079810-009	SW846 3005
	Chromium	0.00154	0.001	0.003	0.1	В, Л	В, Ј	079810-009	SW846 3005
	Cobalt	0.000315	0.0001	0.001	NE	7		079810-009	SW846 3005
	Copper	0.00129	0.0002	0.001	NE			079810-009	SW846 3005
	Iron	0.819	0.01	0.025	NE			079810-009	SW846 3005
TA2-W-26 02-Aug-06	Lead	ND	0.0005	0.002	NE	n		079810-009	SW846 3005
	Magnesium	21.2	0.005	0.015	NE			079810-009	SW846 3005
	Manganese	ND	0.001	0.005	NE	n		079810-009	SW846 3005
	Mercury	ND	0.00006	0.0002	0.002	n		079810-009	SW846 7470
	Nickel	0.00356	0.0005	0.002	NE			079810-009	SW846 3005
	Potassium	2.38	0.08	0.3	NE			079810-009	SW846 3005
	Selenium	0.0131	0.0025	0.005	0.05			079810-009	SW846 3005
	Silver	ND	0.0002	0.001	NE	n		079810-009	SW846 3005
	Sodium	35.2	0.08	0.25	NE		ľ	079810-009	SW846 3005
	Thallium	0.000613	0.0004	0.001	0.002	ſ		079810-009	SW846 3005
	Vanadium	ND	0.002	0.03	NE	n		079810-009	SW846 3005
	Zinc	0.00328	0.002	0.01	NE	В, Ј	В, Ј	079810-009	SW846 3005
Refer to footnotes on page 45.	e 45.								

Aluminum         0.00663         0.015         0.015         NE         J         MOD 107990-009         SWR946 3005           Antimeny         ND         0.0005         0.002         0.006         U         0.079790-009         SWR946 3005           Arsenic         ND         0.0005         0.002         2         P         0.079790-009         SWR946 3005           Beryllium         0.0014         0.0005         0.002         2         D         0.079790-009         SWR946 3005           Cadmium         ND         0.0001         0.0005         0.004         U         0.079790-009         SWR946 3005           Cadmium         ND         0.0001         0.0001         0.004         U         0.079790-009         SWR946 3005           Cradmium         ND         0.0001         0.001         0.005         NE         U         0.79790-009         SWR946 3005           Cradmium         ND         0.0001         0.001         NE         J         0.79790-009         SWR946 3005           Cradmium         ND         0.0001         0.001         NE         J         0.79790-009         SWR946 3005           Cradmium         ND         0.0001         0.001         NE<	Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
rightneny         ND         0,0005         0,0005         0,0006         U         0,07990-009           rightneny         ND         0,0015         0,0005         0,001         0,001         0,001         0,001         0,001         0,001         0,001         0,001         0,001         0,001         0,001         0,001         0,001         0,001         0,002         2         0         0         0,003         0,002         0,004         0         0         0,003         0,004         0         0         0,003         0,004         0		Aluminum	0.00863	0.005	0.015	IJ.	7		00-062620	SW846 3005
realice         ND         0.0015         0.005         0.011         U         0.095         0.001         0.002         2         0         0.095         0.005         0.004         U         0.78790-009<		Antimony	QN	0.0005	0.002	900.0	n		00-062620	SW846 3005
relythum         ND         0.0005         0.0005         0.0004         U         0.79790-009           enylltum         ND         0.0001         0.0005         0.004         U         0.79790-009           admium         ND         0.0001         0.0001         0.0005         0.00         U         0.79790-009           admium         ND         0.0001         0.001         0.001         0.005         U         0.78790-009           Incomium         ND         0.001         0.001         0.001         0.001         0.007         0.0079         0.007         0.		Arsenic	QN	0.0015	0.005	0.01	n		00-062620	SW846 3005
eryflitum         ND         0.0001         0.0005         0.004         U         0.79790-009           admium         ND         0.0001         0.001         0.005         U         0.79790-009           alcium         107         0.1         0.5         NE         U         0.79790-009           Incomium         ND         0.001         0.003         0.01         U         0.79790-009           Incomium         ND         0.00179         0.001         0.001         NE         J         0.79790-009           opetr         0.000611         0.0001         0.001         0.001         0.001         0.79790-009           on         0.000801         0.001         0.001         NE         J         0.79790-009           sad         ND         0.0005         0.005         NE         D         0.79790-009           langersium         1.5.7         0.0005         0.005         NE         D         0.79790-009           stercury         ND         0.0005         0.0005         0.0005         0.0005         D         0.79790-009           stersium         0.0005         0.0005         0.0005         0.000         0.000         D         <		Barium	0.0614	0.0005	0.002	2			00-062620	SW846 3005
admitum         ND         0.0001         0.001         0.005         U         079790-009           alcium         107         0.1         0.5         NE         N         0.79790-009           hromium         ND         0.001         0.003         0.1         U         0         079790-009           hromium         ND         0.001         0.001         NE         J         079790-009           opper         0.000801         0.0002         0.001         NE         J         079790-009           on         0.594         0.01         0.005         NE         J         079790-009           on         ND         0.005         0.005         NE         D         079790-009           add         ND         0.005         0.015         NE         D         079790-009           langanesium         15.7         0.005         0.015         NE         D         079790-009           langanesium         ND         0.006         0.005         NE         D         079790-009           ickel         0.007         0.006         0.005         NE         D         079790-009           ickel         0.007         0.006		Beryllium	QN	0.0001	0.0005	0.004	n		00-062620	SW846 3005
alcium         107         0.1         0.5         NE         NE         079790-009           hromium         ND         0.001         0.003         0.1         U         079790-009           obalt         0.000179         0.0001         0.001         NE         J         079790-009           opper         0.000801         0.0002         0.001         NE         J         079790-009           on         0.0008         0.001         0.0025         NE         U         079790-009           on         ND         0.005         0.005         NE         U         079790-009           langanesium         15.7         0.005         0.015         NE         U         079790-009           langanese         ND         0.005         0.015         NE         U         079790-009           larcury         ND         0.0006         0.0002         0.002         U         079790-009           ickel         0.0025         0.0005         0.005         NE         U         079790-009           ilver         ND         0.0025         0.005         NE         U         079790-009           odium         0.0025         0.005		Cadmium	QN	0.0001	0.001	0.005	n		00-062620	SW846 3005
thromium         ND         0.001         0.003         0.11         U         079790-009           obalt         0.000179         0.0001         0.002         0.002 <td< td=""><td></td><td>Calcium</td><td>107</td><td>0.1</td><td>0.5</td><td>Ŋ</td><td></td><td></td><td>00-062620</td><td>SW846 3005</td></td<>		Calcium	107	0.1	0.5	Ŋ			00-062620	SW846 3005
obalt         0.000179         0.0001         0.001         NE         J         079790-009           opper         0.000801         0.0002         0.001         NE         J         079790-009           on         0.594         0.01         0.025         NE         D         079790-009           ead         ND         0.0005         0.002         NE         D         079790-009           langanese         ND         0.0005         0.015         NE         D         079790-009           langanese         ND         0.0005         0.005         NE         D         079790-009           langanese         ND         0.0006         0.005         NE         D         079790-009           langanese         ND         0.0006         0.0002         0.002         0.002         0.002         0.002           otassium         ND         0.0005         0.005         NE         N         0.79790-009           elenium         0.0073         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005		Chromium	QN	0.001	0.003	0.1	n		600-062620	SW846 3005
opper         0.000801         0.0002         0.001         NE         J         079790-009           on         0.594         0.01         0.025         NE         U         079790-009           ead         ND         0.0005         0.005         0.015         NE         U         079790-009           lagnesium         15.7         0.005         0.015         NE         U         079790-009           langanese         ND         0.0006         0.005         0.005         NE         U         079790-009           lercury         ND         0.0005         0.0002         NE         NE         N         079790-009           ickel         0.00258         0.0005         0.002         NE         N         079790-009           ickel         0.00773         0.0025         0.005         N         N         N         079790-009           ilver         ND         0.0025         0.005         0.005         N         N         N         079790-009           odium         25.3         0.08         0.25         NE         J         N         079790-009           nallium         0.0042         0.002         0.03         N<		Cobalt	0.000179	0.0001	0.001	Ŋ	ר		00-062620	SW846 3005
on         0.594         0.01         0.025         NE         NE         0.07         0.79790-009           ead         ND         0.0005         0.005         0.015         NE         U         0.79790-009           lagnesium         15.7         0.005         0.015         NE         U         0.79790-009           lercury         ND         0.0005         0.005         NE         U         0.79790-009           ickel         0.00268         0.0005         0.002         NE         V         0.79790-009           ickel         0.00258         0.0005         0.005         NE         V         0.79790-009           ickel         0.00773         0.0025         0.005         NE         V         0.79790-009           ilver         ND         0.0025         0.005         NE         U         0.79790-009           odium         25.3         0.08         0.05         NE         U         0.79790-009           ilver         0.00051         0.002         0.002         J         B3, J         0.79790-009           anadium         0.0042         0.003         0.03         NE         J         D79790-009           inc		Copper	0.000801	0.0002	0.001	Ŋ	ר		00-062620	SW846 3005
ead         ND         0.0005         0.0015         NE         U         P         0.79790-009           lagnesium         15.7         0.005         0.015         NE         U         0.79790-009           langanese         ND         0.0006         0.0005         0.0002         0.002         U         0.79790-009           lickel         0.00258         0.0005         0.002         NE         N         0.79790-009           classium         1.91         0.08         0.33         NE         N         0.79790-009           elenium         0.00773         0.0025         0.005         0.055         N         N         0.79790-009           silver         ND         0.0002         0.001         NE         N         0.79790-009           nallium         0.000661         0.0004         0.001         0.001         N         N         0.79790-009           inc         0.0042         0.002         0.001         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.002         0.		Iron	0.594	0.01	0.025	NE			600-062620	SW846 3005
lagnesium         15.7         0.005         0.015         NE         U         0.79790-009           langanese         ND         0.001         0.005         NE         U         0.79790-009           letcury         ND         0.0005         0.0002         0.002         NE         N         0.79790-009           ickel         0.00258         0.0005         0.002         NE         N         0.79790-009           elenium         0.00773         0.0025         0.005         0.005         0.005         0.005           liker         ND         0.0002         0.001         NE         N         0.79790-009           odium         25.3         0.08         0.25         NE         N         0.79790-009           hallium         0.000661         0.0004         0.001         0.002         J         B3, J         0.79790-009           inc         0.0042         0.002         0.03         NE         J         B3, J         0.79790-009           inc         0.0042         0.002         0.03         NE         J         B3, J         0.79790-009           inc         0.0042         0.002         0.03         NE         J <t< td=""><td>TA2-W-27 17-, Iul-06</td><td>Lead</td><td>QN</td><td>0.0005</td><td>0.002</td><td>Ŋ</td><td>n</td><td></td><td>00-062620</td><td>SW846 3005</td></t<>	TA2-W-27 17-, Iul-06	Lead	QN	0.0005	0.002	Ŋ	n		00-062620	SW846 3005
langanese         ND         0.001         0.005         NE         U         079790-009           lecury         ND         0.00066         0.0002         0.0002         0.		Magnesium	15.7	0.005	0.015	NE			600-062620	SW846 3005
lercury         ND         0.00006         0.0002         NE         U         PS790-009           ickel         0.00258         0.00058         0.0002         NE         PS         0.09790-009           clenium         0.00773         0.0025         0.005 <t< td=""><td></td><td>Manganese</td><td>ND</td><td>0.001</td><td>0.005</td><td>NE</td><td>n</td><td></td><td>600-062620</td><td>SW846 3005</td></t<>		Manganese	ND	0.001	0.005	NE	n		600-062620	SW846 3005
tickel         0.00258         0.0005         0.002         NE         PR         0.005         0.005           otassium         1.91         0.08         0.03         NE         NE         0.0         0.095         0.005		Mercury	QN	0.00006	0.0002	0.002	n		600-062620	SW846 7470
odassium         1.91         0.08         0.3         NE         NE         0.09790-009           elenium         0.00773         0.0025         0.005         0.05         NE         N         0.79790-009           ilver         ND         0.0002         0.001         NE         N         0.79790-009           odium         25.3         0.08         0.25         NE         B3, J         079790-009           hallium         0.000661         0.0004         0.001         0.002         J         B3, J         079790-009           inc         0.00349         0.002         0.01         N         B, J         B, J         079790-009		Nickel	0.00258	0.0005	0.002	NE			600-062620	SW846 3005
elenium         0.00773         0.0025         0.005         0.005         0.005         0.005         0.001         NE         U         079790-009           river         ND         0.000         0.001         NE         NE         079790-009         079790-009           realium         0.000661         0.0004         0.001         0.002         J         B3, J         079790-009           anadium         0.0042         0.002         0.03         NE         B, J         B, J         079790-009           inc         0.00349         0.002         0.01         NE         B, J         B, J         079790-009		Potassium	1.91	0.08	0.3	NE			600-062620	SW846 3005
liver         ND         0.0002         0.001         NE         U         PR         079790-009           odium         25.3         0.08         0.25         NE         J         B3, J         079790-009           hallium         0.000661         0.00042         0.002         0.03         NE         J         B3, J         079790-009           inc         0.00349         0.002         0.01         NE         B, J         B, J         079790-009		Selenium	0.00773	0.0025	0.005	0.05			019790-009	SW846 3005
odium         25.3         0.08         0.25         NE         NE         0.00         0.79790-009           hallium         0.000661         0.0004         0.001         0.002         J         B3, J         079790-009           anadium         0.0042         0.002         0.03         NE         J         B, J         079790-009           inc         0.00349         0.002         0.01         NE         B, J         B, J         079790-009		Silver	ND	0.0002	0.001	NE	n		600-062620	SW846 3005
hallium         0.000661         0.00042         0.001         0.002         J         B3, J         079790-009           anadium         0.0042         0.002         0.03         NE         J         B, J         B, J         079790-009           inc         0.00349         0.002         0.01         NE         B, J         B, J         079790-009		Sodium	25.3	0.08	0.25	NE			600-062620	SW846 3005
anadium         0.0042         0.002         0.03         NE         J         PS J         079790-009           inc         0.00349         0.002         0.01         NE         B, J         B, J         079790-009		Thallium	0.000661	0.0004	0.001	0.002	ſ	ВЗ, Ј	600-062620	SW846 3005
inc 0.00349 0.002 0.01 NE B,J B,J 079790-009		Vanadium	0.0042	0.002	0.03	NE	ſ		079790-009	SW846 3005
		Zinc	0.00349	0.002	0.01	N	В, Л		019790-009	SW846 3005

Aluminum         0.00885         0.005         0.015         NE         J           Antimony         ND         0.0005         0.0005         0.0006         B.U         B.U           Arsenic         ND         0.0015         0.005         0.001         D.0           Barium         0.0433         0.0005         0.002         2         D.           Barium         0.0433         0.0005         0.002         0.004         D.           Cadmium         ND         0.0001         0.0005         0.004         D.           Cadmium         0.00227         0.001         0.001         B.J         B.J           Calcium         78.2         0.11         0.005         D.         B.J         B.J           Calcium         78.2         0.011         0.001         D.         B.J         B.J         B.J           Calcium         0.00027         0.001         0.001         D.         D.         B.J         B.J         B.J           Calcium         0.001         0.001         D.002         D.002         D.         B.J         B.J           Caper         ND         0.0010         D.002         D.02         D.	Well ID	Analyte	Resulta (mg/L)	MDL <sup>b</sup>	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
Arsenic         ND         0.0005         0.0005         0.0006         B, U           Arsenic         ND         0.0015         0.005         0.01         U           Barium         0.0433         0.0005         0.002         2         U           Barium         ND         0.0001         0.0005         0.004         U         U           Cadmium         ND         0.0001         0.0001         0.0005         0.00         U         D           Cadcium         78.2         0.1         0.001         0.001         0.005         U         B, J           Chromium         0.00227         0.001         0.001         0.001         B, J         D           Cobalt         0.00023         0.0001         0.001         NE         B, J         D           Iron         0.00103         0.0002         0.001         NE         B, J         D           Magnesium         10.2         0.005         0.005         NE         D         D           Mercury         ND         0.0005         0.005         NE         D         D           Mercury         ND         0.0005         0.005         NE         D		Aluminum	0.00885	0.005	0.015	NE	٦		079814-009	SW846 3005
Arsenic         ND         0.0015         0.005         0.01         U           Barium         0.0433         0.0005         0.004         U           Barium         0.0433         0.0005         0.004         U           Beryllium         ND         0.0001         0.0005         U         U           Cadrium         78.2         0.1         0.50         NE         B         J           Calclum         78.2         0.1         0.001         0.005         U         B         J           Calclum         78.2         0.1         0.001         0.001         B         J         B           Chromium         0.00227         0.001         0.001         B, J         B         J           Cobalt         0.00103         0.0001         0.001         NE         B, J         B           Iron         ND         0.0005         0.001         NE         NE         B           Magnesium         10.2         0.005         0.005         NE         N         N           Nickel         0.00137         0.0005         0.005         NE         N         N           Selenium         ND		Antimony	ND	0.0005	0.002	900.0	B, U		079814-009	SW846 3005
Barium         0.0433         0.0005         0.0004         2           Beryllium         ND         0.0001         0.0005         0.004         U           Cadmium         ND         0.0001         0.001         0.005         U           Calcium         78.2         0.1         0.5         NE         B         J           Chromium         0.00227         0.001         0.001         B, J         B         J           Chromium         0.00227         0.001         0.001         B, J         B         J           Chromium         0.00227         0.001         0.001         B, J         B, J         B           Chromium         0.00227         0.001         0.001         NE         B, J         B           Copper         0.00103         0.0002         0.001         NE         B, J         B           Magnesium         10.2         0.005         0.005         NE         N         D           Mercury         ND         0.0005         0.005         NE         J         S           Nickel         0.00137         0.005         0.005         NE         J         S           Sodium		Arsenic	ND	0.0015	0.005	0.01	ח		079814-009	SW846 3005
Beryllium         ND         0.0001         0.0005         0.004         U           Cadrium         ND         0.0001         0.001         0.005         U           Calcium         78.2         0.1         0.5         NE         B         J           Chromium         0.00227         0.001         0.003         0.1         B, J         B         J           Chromium         0.00023         0.0001         0.001         NE         B, J         B         J           Cobalt         0.001033         0.0002         0.001         NE         B, J         B         J           Iron         0.361         0.01         0.001         NE         NE         U         B         J           Iron         ND         0.0005         0.005         NE         NE         J         J         A         J         B         J         J         B         J		Barium	0.0433	0.0005	0.002	2			079814-009	SW846 3005
cadmium         ND         0.0001         0.001         0.005         U           Calcium         78.2         0.1         0.5         NE         B         D           Chromium         0.000227         0.001         0.003         0.01         B,J         B           Chromium         0.000203         0.0001         0.001         B,J         B         D           Cobalt         0.000203         0.0001         0.001         NE         B,J         B           Iron         0.00103         0.0002         0.001         NE         B         J           Lead         ND         0.0005         0.005         NE         B         D           Magnesium         10.2         0.005         0.005         NE         D         D           Mercury         ND         0.0006         0.005         NE         J         D           Nickel         0.00137         0.0005         0.005         NE         J         D           Selenium         ND         0.0025         0.005         0.005         J         D           Sodium         ND         0.0002         0.005         0.005         J         D <td></td> <td>Beryllium</td> <td>ND</td> <td>0.0001</td> <td>0.0005</td> <td>0.004</td> <td>n</td> <td></td> <td>079814-009</td> <td>SW846 3005</td>		Beryllium	ND	0.0001	0.0005	0.004	n		079814-009	SW846 3005
Calcium         78.2         0.1         0.5         NE         B           Chromium         0.00227         0.001         0.003         0.1         B,J         D           Cobalt         0.000203         0.0001         0.001         NE         B,J         D           Copper         0.00103         0.0002         0.001         NE         B,J         D           Iron         0.00103         0.0005         0.002         NE         U         D           Lead         ND         0.0005         0.002         NE         U         D           Magnesium         10.2         0.005         0.005         NE         U         D           Mercury         ND         0.0006         0.002         NE         U         D           Nickel         0.00137         0.0005         0.002         NE         U         D           Selenium         0.00452         0.0025         0.005         0.005         J         D           Sodium         ND         0.008         0.005         NE         U         D           Thallium         ND         0.0064         0.001         NE         U         D		Cadmium	ND	0.0001	0.001	0.005	ח		079814-009	SW846 3005
Chromium         0.00227         0.001         0.003         0.01         B, J         B, J           Cobalt         0.000203         0.0001         0.001         NE         B, J         B, J           Copper         0.001033         0.0002         0.001         NE         B, J         B           Iron         0.001         0.0005         0.002         NE         U         B           Magnesium         10.2         0.005         0.005         NE         U         B           Mercury         ND         0.0004         0.0005         0.002         0.002         U         D           Nickel         0.00137         0.0005         0.002         NE         J         D           Potassium         1.71         0.08         0.03         NE         J         D           Selenium         0.00452         0.0025         0.005         J         D         D           Sodium         20.5         0.08         0.025         NE         J         D           Thallium         ND         0.0024         0.002         D         D         D         D           Vanadium         0.00545         0.002		Calcium	78.2	0.1	0.5	NE	В		079814-009	SW846 3005
Cobalt         0.000203         0.0001         NE         B, J           Copper         0.00103         0.0002         0.001         NE         B, J           Iron         0.361         0.0002         0.001         NE         D           Lead         ND         0.0005         0.002         NE         B           Magnesium         10.2         0.005         0.015         NE         D           Marganese         ND         0.0001         0.0005         NE         B         N           Mercury         ND         0.0006         0.0002         0.002         NE         J         N           Nickel         0.00137         0.0005         0.002         NE         J         N           Selenium         0.00452         0.0025         0.005         J         N         N           Sodium         20.5         0.008         0.005         N         N         N         N           Thallium         ND         0.0004         0.001         0.002         N         N         N           Vanadium         ND         0.0004         0.001         0.002         N         N         N		Chromium	0.00227	0.001	0.003	0.1	В, Ј	В, Ј	079814-009	SW846 3005
Copper         0.00103         0.0002         0.001         NE           Iron         0.361         0.01         0.025         NE           Lead         ND         0.005         0.002         NE           Magnesium         10.2         0.005         0.015         NE           Manganese         ND         0.001         0.005         NE         NE           Mercury         ND         0.0006         0.0002         0.002         NE           Nickel         0.00137         0.008         0.03         NE         NE           Selenium         1.71         0.08         0.3         NE         Selenium           Sodium         20.5         0.0025         0.005         NE         NE           Thallium         ND         0.0004         0.001         0.002         NE           Vanadium         0.00545         0.002         0.003         NE         NE		Cobalt	0.000203	0.0001	0.001	NE	В, Ј	В, Ј	079814-009	SW846 3005
Iron         0.361         0.01         0.025         NE           Lead         ND         0.0005         0.002         NE           Magnesium         10.2         0.0015         NE         NE           Mercury         ND         0.0006         0.0002         NE         NE           Nickel         0.00137         0.0005         0.002         NE         NE           Potassium         1.71         0.08         0.3         NE         NE           Selenium         0.00452         0.0025         0.005         NE         NE           Sodium         20.5         0.08         0.25         NE           Thallium         ND         0.0004         0.001         NE         NE           Vanadium         0.00545         0.002         0.003         NE         NE		Copper	0.00103	0.0002	0.001	NE			079814-009	SW846 3005
Lead         ND         0.0005         0.005         NE           Magnesium         10.2         0.005         0.015         NE           Manganese         ND         0.0001         0.0005         NE         NE           Mercury         ND         0.0006         0.0002         0.002         NE           Nickel         0.00137         0.0005         0.002         NE         NE           Potassium         1.71         0.08         0.33         NE         Silver         NE         Silver         ND         0.0005         0.005         NE         NE         Silver         NE         NE <td></td> <td>Iron</td> <td>0.361</td> <td>0.01</td> <td>0.025</td> <td>NE</td> <td></td> <td></td> <td>079814-009</td> <td>SW846 3005</td>		Iron	0.361	0.01	0.025	NE			079814-009	SW846 3005
Magnesium         10.2         0.005         0.015         NE           Manganese         ND         0.001         0.005         NE           Mercury         ND         0.0006         0.0002         0.002           Nickel         0.00137         0.008         0.03         NE           Potassium         1.71         0.08         0.3         NE           Selenium         0.00452         0.0025         0.005         NE           Sodium         20.5         0.08         0.25         NE           Thallium         ND         0.0004         0.001         0.002           Vanadium         0.00545         0.002         0.003         NE	<b>TJA-2</b> 07-A110-06	Lead	ND	0.0005	0.002	NE	n		079814-009	SW846 3005
ry         ND         0.001         0.005         NE           ry         ND         0.0006         0.0002         0.002           sium         1.71         0.08         0.3         NE           um         0.00452         0.0025         0.005         NE           n         20.5         0.08         0.25         NE           im         ND         0.0004         0.004         NE         NE           imm         0.00545         0.0025         0.001         NE         NE		Magnesium	10.2	0.005	0.015	NE	В		079814-009	SW846 3005
ry         ND         0.00006         0.0002         0.0002           sium         1.71         0.08         0.33         NE           um         0.00452         0.0025         0.005         0.05           n         20.5         0.08         0.25         NE           im         ND         0.0004         0.001         NE           im         0.00545         0.002         0.001         0.002		Manganese	ND	0.001	0.005	NE	n		079814-009	SW846 3005
sium         0.00137         0.0005         0.002         NE           um         0.00452         0.0025         0.005         0.05           m         20.5         0.08         0.25         NE           im         ND         0.0004         0.001         NE         0.002           im         ND         0.0004         0.001         0.002         0.002           imm         ND         0.0004         0.001         0.002         NE         0.002		Mercury	ND	900000	0.0002	0.002	n		079814-009	SW846 7470
sium         1.71         0.08         0.3         NE           um         0.00452         0.0025         0.005         0.05           m         20.5         0.08         0.25         NE           Im         ND         0.0004         0.001         0.002           ium         0.00545         0.002         0.03         NE		Nickel	0.00137	0.0005	0.002	NE	٦		079814-009	SW846 3005
um         0.00452         0.0025         0.005         0.05           n         20.5         0.08         0.25         NE           lm         ND         0.0004         0.001         0.002           ium         0.00545         0.002         0.03         NE		Potassium	1.71	0.08	0.3	NE			079814-009	SW846 3005
m         20.5         0.0002         0.001         NE           im         20.5         0.004         0.002         NE           imm         ND         0.0004         0.001         0.002           ium         0.00545         0.002         0.03         NE		Selenium	0.00452	0.0025	0.005	0.05	٦		079814-009	SW846 3005
7 20.5 0.08 0.25 NE NE ND 0.0004 0.001 0.002 NE		Silver	ND	0.0002	0.001	NE	n		079814-009	SW846 3005
ND 0.0004 0.001 0.002 0.002 0.002 0.03 NE		Sodium	20.5	0.08	0.25	NE			079814-009	SW846 3005
0.00545 0.002 0.03 NE		Thallium	ND	0.0004	0.001	0.002	n		079814-009	SW846 3005
		Vanadium	0.00545	0.002	0.03	NE	Ŋ		079814-009	SW846 3005
Zinc 0.00324 0.002 0.01 NE J		Zinc	0.00324	0.002	0.01	NE	٦		079814-009	SW846 3005

Table TAG E-5
Summary of Total Metal Results
Tijeras Arroyo Groundwater Investigation

	4. I A	Resulta	MDL	PQL°	MCLd	Laboratory	Validation		Analytical
Meii IIO	Analyte	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Qualifier	Qualifier	Sample NO.	Method9
	Aluminum	0.00624	0.005	0.015	N N	7		00-662620	SW846 3005
	Antimony	QN	0.0005	0.002	900.0	n		00-662620	SW846 3005
	Arsenic	QN	0.0015	0.005	0.01	ס		00-662620	SW846 3005
	Barium	0.0409	0.0005	0.002	2			600-662620	SW846 3005
	Beryllium	QN	0.0001	0.0005	0.004	ח		00-662620	SW846 3005
	Cadmium	QN	0.0001	0.001	0.005	ס		00-662620	SW846 3005
	Calcium	63.2	0.1	0.5	N N	В		00-662620	SW846 3005
	Chromium	0.00224	0.001	0.003	0.1	В, Ј	В, Ј	00-662620	SW846 3005
	Cobalt	0.000114	0.0001	0.001	Ŋ	٦		00-662620	SW846 3005
	Copper	0.000482	0.0002	0.001	NE	٦		00-662620	SW846 3005
	Iron	0.236	0.01	0.025	NE			00-662620	SW846 3005
TJA-3 24-Jul-06	Lead	QN	0.0005	0.002	NE	n		079799-009	SW846 3005
	Magnesium	10.7	0.005	0.015	NE			600-662620	SW846 3005
	Manganese	QN	0.001	0.005	JN	n		600-662620	SW846 3005
	Mercury	QN	0.00006	0.0002	0.002	ח		00-662620	SW846 7470
	Nickel	0.00109	0.0005	0.002	NE	ſ		00-662620	SW846 3005
	Potassium	1.62	0.08	0.3	NE			079799-009	SW846 3005
	Selenium	QN	0.0025	0.005	0.05	ח		600-662620	SW846 3005
	Silver	QN	0.0002	0.001	NE	n		00-662620	SW846 3005
	Sodium	24.3	0.08	0.25	NE			079799-009	SW846 3005
	Thallium	0.000722	0.0004	0.001	0.002	ח		079799-009	SW846 3005
	Vanadium	ND	0.002	0.03	NE	n		079799-009	SW846 3005
	Zinc	0.00338	0.002	0.01	Ŋ	В, Л	В, Л	00-662620	SW846 3005
Refer to footnotes on page 45	age 45.								

ND ND 0.00157 0.00157 0.162 ND ND ND 0.00141 0.000297 0.001297 0.00161 ND	Resulta MDLb (mg/L)	L) PQL°	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
Arsenic ND  Arsenic 0.00157  Barium 0.162  Beryllium ND  Cadmium 66.5  Chromium 0.00141  Cobalt 0.000297  Copper 0.00102  Iron 0.323  Lead ND  Magnesium 12.3  Manganese ND  Mercury ND  Nickel 0.000755  Selenium 0.00275  Silver ND  Sodium 23.1  Thallium 0.000458	ND 0.005	5 0.015	뮐	ס		079822-009	SW846 3005
Arsenic         0.00157           Barium         0.162           Beryllium         ND           Cadmium         ND           Cadmium         0.00141           Calcium         66.5           Chromium         0.00141           Cobalt         0.000297           Iron         0.323           Iron         ND           Mangnesium         12.3           Manganese         ND           Nickel         0.00161           Potassium         3.18           Selenium         0.00275           Silver         ND           Sodium         23.1           Thallium         0.000458	ND 0.0005	0.002	900.0	B, U		079822-009	SW846 3005
Barium         0.162           Beryllium         ND           Cadmium         ND           Calcium         66.5           Chromium         0.00141           Cobalt         0.000297           Iron         0.323           Lead         ND           Manganese         ND           Mercury         ND           Nickel         0.00161           Potassium         3.18           Selenium         0.00275           Silver         ND           Sodium         23.1           Thallium         0.000458	0.00157 0.0015	5 0.005	0.01	7		079822-009	SW846 3005
Beryllium         ND           Cadmium         ND           Calcium         66.5           Chromium         0.00141           Cobalt         0.000297           Copper         0.00102           Iron         0.323           Lead         ND           Magnesium         12.3           Mercury         ND           Nickel         0.00161           Potassium         3.18           Selenium         0.00275           Silver         ND           Sodium         23.1           Thallium         0.000458	0.162 0.0005	0.002	2			079822-009	SW846 3005
Cademium         ND           Calcium         66.5           Chromium         0.00141           Cobalt         0.000297           Copper         0.00102           Iron         0.323           Lead         ND           Manganesium         12.3           Manganese         ND           Nickel         0.00161           Potassium         3.18           Selenium         0.00275           Silver         ND           Sodium         23.1           Thallium         0.000458	ND 0.0001	0.0005	0.004	ס		079822-009	SW846 3005
Calcium         66.5           Chromium         0.00141           Cobalt         0.000297           Copper         0.00102           Iron         0.323           Lead         ND           Magnesium         12.3           Mercury         ND           Nickel         0.00161           Potassium         3.18           Selenium         0.00275           Silver         ND           Sodium         23.1           Thallium         0.000458	ND 0.0001	100.00	0.005	ס		079822-009	SW846 3005
Chromium         0.000141           Cobalt         0.000297           Copper         0.00102           Iron         0.323           Lead         ND           Magnesium         12.3           Manganese         ND           Mercury         ND           Nickel         0.00161           Potassium         3.18           Selenium         0.00275           Silver         ND           Sodium         23.1           Thallium         0.000458	66.5 0.1	0.5	焸			079822-009	SW846 3005
Cobalt         0.000297           Copper         0.00102           Iron         0.323           Lead         ND           Magnesium         12.3           Manganese         ND           Mercury         ND           Nickel         0.00161           Potassium         3.18           Selenium         0.00275           Silver         ND           Sodium         23.1           Thallium         0.000458	0.00141 0.001	1 0.003	0.1	7		079822-009	SW846 3005
Copper         0.00102           Iron         0.323           Lead         ND           Magnesium         12.3           Manganese         ND           Mercury         ND           Nickel         0.00161           Potassium         3.18           Selenium         0.00275           Silver         ND           Sodium         23.1           Thallium         0.000458	0.000297 0.0001	100.00	焸	7		079822-009	SW846 3005
Iron         0.323           Lead         ND           Magnesium         12.3           Manganese         ND           Mercury         ND           Nickel         0.00161           Potassium         3.18           Selenium         0.00275           Silver         ND           Sodium         23.1           Thallium         0.000458	0.00102 0.0002	0.001	핑	В	В, Ј	079822-009	SW846 3005
Lead         ND           Magnesium         12.3           Manganese         ND           Mercury         ND           Nickel         0.00161           Potassium         3.18           Selenium         0.00275           Silver         ND           Sodium         23.1           Thallium         0.000458	0.323 0.01	0.025	Ŋ			079822-009	SW846 3005
Manganesium         12.3           Manganese         ND           Mercury         ND           Nickel         0.00161           Potassium         3.18           Selenium         0.00275           Silver         ND           Sodium         23.1           Thallium         0.000458	ND 0.0005	0.002	NE NE	n		079822-009	SW846 3005
In the service of the	12.3 0.005	5 0.015	NE			079822-009	SW846 3005
ry ND 0.00161 3:18 3.18 0.00275 ND	ND 0.001	1 0.005	NE NE	n		079822-009	SW846 3005
0.00161 sium 3.18 um 0.00275 n 23.1 im 0.000458	900000 ON O	0.0002	0.002	ס		079822-009	SW846 7470
sium 3.18  um 0.00275  n 23.1  im 0.000458	0.00161 0.0005	0.002	NE	Ŋ		079822-009	SW846 3005
um 0.00275  ND  n 23.1  Im 0.000458	3.18 0.08	0.3	NE NE			079822-009	SW846 3005
ND 23.1 m 0.000458	0.00275 0.0025	300.0   5	0.05	Ŋ		079822-009	SW846 3005
23.1	ND 0.0002	0.001	NE NE	n		079822-009	SW846 3005
0.000458	23.1 0.08	0.25	NE		ſ	079822-009	SW846 3005
	0.000458 0.0004	0.001	0.002	J	В3, Ј	079822-009	SW846 3005
	0.00373 0.002	2 0.03	NE	ال		079822-009	SW846 3005
Zinc 0.00713 0.	0.00713 0.002	2 0.01	빙	В, Ј	В, Л	079822-009	SW846 3005

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Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>®</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
	Aluminum	0.766	0.005	0.015	NE	В		079794-009	SW846 3005
	Antimony	ND	0.0005	0.002	900'0	B, U		079794-009	SW846 3005
	Arsenic	ND	0.0015	0.005	0.01	n		079794-009	SW846 3005
	Barium	0.0743	0.0005	0.002	2			079794-009	SW846 3005
	Beryllium	ND	0.0001	0.0005	0.004	n		079794-009	SW846 3005
	Cadmium	QN	0.0001	0.001	0.005	ח		079794-009	SW846 3005
	Calcium	59.8	0.1	0.5	NE	В		079794-009	SW846 3005
	Chromium	0.00159	0.001	0.003	0.1	٦		079794-009	SW846 3005
	Cobalt	0.000328	0.0001	0.001	NE	٦		079794-009	SW846 3005
	Copper	0.00156	0.0002	0.001	NE			079794-009	SW846 3005
	Iron	0.811	0.01	0.025	NE			079794-009	SW846 3005
TJA-6 19-,lul-06	Lead	ND	0.0005	0.002	NE	n		079794-009	SW846 3005
	Magnesium	11.8	0.005	0.015	NE			079794-009	SW846 3005
	Manganese	0.0204	0.001	0.005	NE			079794-009	SW846 3005
	Mercury	QN	0.00006	0.0002	0.002	n		079794-009	SW846 7470
	Nickel	0.00156	0.0005	0.002	NE	ſ		079794-009	SW846 3005
	Potassium	2.19	0.08	0.3	NE			079794-009	SW846 3005
	Selenium	QN	0.0025	0.005	90'0	n		079794-009	SW846 3005
	Silver	ND	0.0002	0.001	NE	n		079794-009	SW846 3005
	Sodium	23.1	0.08	0.25	NE			079794-009	SW846 3005
	Thallium	0.000614	0.0004	0.001	0.002	ſ		079794-009	SW846 3005
	Vanadium	0.00417	0.002	0.03	NE	ľ		079794-009	SW846 3005
	Zinc	0.00502	0.002	0.01	NE	В, Ј	В, Ј	079794-009	SW846 3005
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Well ID	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
	Aluminum	0.0385	0.005	0.015	IJZ			079818-009	SW846 3005
	Antimony	ND	0.0005	0.002	900.0	ח		079818-009	SW846 3005
	Arsenic	QN	0.0015	0.005	0.01	ח		079818-009	SW846 3005
	Barium	0.221	0.0005	0.002	2			079818-009	SW846 3005
	Beryllium	QN	0.0001	0.0005	0.004	ח		079818-009	SW846 3005
	Cadmium	ND	0.0001	0.001	0.005	ס		079818-009	SW846 3005
	Calcium	65.7	0.1	0.5	IJ.			079818-009	SW846 3005
	Chromium	QN	0.001	0.003	0.1	ח		079818-009	SW846 3005
	Cobalt	0.000322	0.0001	0.001	IJN.	7		079818-009	SW846 3005
	Copper	0.000539	0.0002	0.001	NE NE	٦		079818-009	SW846 3005
	Iron	0.311	0.01	0.025	NE	В		079818-009	SW846 3005
TJA-7 10-Aug-06	Lead	ND	0.0005	0.002	NE	n		079818-009	SW846 3005
	Magnesium	12.4	0.005	0.015	IJN.			079818-009	SW846 3005
	Manganese	0.00103	0.001	0.005	IJN.	7		079818-009	SW846 3005
	Mercury	ND	0.00006	0.0002	0.002	n		079818-009	SW846 7470
	Nickel	0.00135	0.0005	0.002	NE	٦		079818-009	SW846 3005
	Potassium	1.71	0.08	0.3	NE			079818-009	SW846 3005
	Selenium	0.00437	0.0025	0.005	0.05	٦		079818-009	SW846 3005
	Silver	QN	0.0002	0.001	IJN.	ח		079818-009	SW846 3005
	Sodium	17.8	0.08	0.25	NE			079818-009	SW846 3005
	Thallium	0.000691	0.0004	0.001	0.002	ľ		079818-009	SW846 3005
	Vanadium	0.00292	0.002	0.03	NE	ľ		079818-009	SW846 3005
	Zinc	0.0034	0.002	0.01	IJN.	В, Ј	В, Ј	079818-009	SW846 3005

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Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
	Aluminum	2.85	0.005	0.015	NE	В		079786-009	SW846 3005
	Antimony	ND	0.0005	0.002	900.0	U		019786-009	SW846 3005
	Arsenic	QN	0.0015	0.005	0.01	n		00-98260	SW846 3005
	Barium	0.0748	0.0005	0.002	2			600-98260	SW846 3005
	Beryllium	0.000118	0.0001	0.0005	0.004	7		079786-009	SW846 3005
	Cadmium	0.000108	0.0001	0.001	0.005	7		00-98260	SW846 3005
	Calcium	7.97	0.2	1.0	ЩZ	В		00-982-000	SW846 3005
	Chromium	0.00301	0.001	0.003	0.1			600-98260	SW846 3005
	Cobalt	0.00063	0.0001	0.001	Щ И	7		00-98260	SW846 3005
	Copper	0.00213	0.0002	0.001	N N	В		600-98260	SW846 3005
	Iron	1.89	0.01	0.025	NE			600-98260	SW846 3005
WYO-3 12-Jul-06	Lead	0.00163	0.0005	0.002	NE	ſ		600-98260	SW846 3005
	Magnesium	12.9	0.005	0.015	JN.		ſ	600-98260	SW846 3005
	Manganese	0.0391	0.001	0.005	NE			600-98260	SW846 3005
	Mercury	ND	0.00006	0.0002	0.002	U	B3, UJ	079786-009	SW846 7470
	Nickel	0.00255	0.0005	0.002	NE			00-982600	SW846 3005
	Potassium	2.66	0.08	0.3	NE			00-982-009	SW846 3005
	Selenium	QN	0.0025	0.005	90.0	n		600-98260	SW846 3005
	Silver	QN	0.0002	0.001	NE	n		00-98260	SW846 3005
	Sodium	25.4	0.08	0.25	JN			600-98260	SW846 3005
	Thallium	0.000622	0.0004	0.001	0.002	ſ		019786-009	SW846 3005
	Vanadium	0.00733	0.002	0.03	NE	J	A2, J	079786-009	SW846 3005
	Zinc	0.0159	0.002	0.01	IJ	В		00-98260	SW846 3005

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Aluminum         0.0003         0.0015         0.005         0.006         U         0.73805-009         SWM446 3006           Alterininoy         ND         0.0005         0.0005         0.0006	Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
Antimony         ND         0,0005         0,0006         U         0,79805-009           Arsenic         ND         0,0015         0,005         0,01         U         0,79805-009           Barlum         0,172         0,0005         0,0002         0,004         U         0,79805-009           Barlum         ND         0,0001         0,0002         0,000         0,000         0,000         0,000           Cadmium         ND         0,0001         0,0001         0,0001         0,000         0,000         0,000         0,000           Cadorium         ND         0,0001         0,001         0,001         0,001         0,000<		Aluminum	0.0303	0.005	0.015	NE	В		079805-009	SW846 3005
Arsenic         ND         0,0015         0,005         0,01         0,004         0,001         0,005         0,001         0,004         0         0         07805-009           Barlum         0,172         0,0005         0,0004         0,0004         0,0004         0		Antimony	QN	0.0005	0.002	900.0	n		00-508620	SW846 3005
Barium         0.172         0.0065         0.002         2         0         0.7806-009           Beryllium         ND         0.0001         0.0005         0.004         U         0.78805-009           Cadrilum         ND         0.0001         0.001         0.001         0.005         U         0.78805-009           Cadrilum         ND         0.001         0.001         0.003         0.001         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.001         0.005         0.001         0.005         0.001         0.001         0.001         0.001         0.005         0.001         0.001         0.001         0.001         0.001         0.001         0.002         0.001         0.002         0.001         0.002         0.001         0.002         0.001         0.002         0.00		Arsenic	Q	0.0015	0.005	0.01	n		079805-009	SW846 3005
Berylitum         ND         0.0001         0.0005         0.004         U         0.79805-009           Cadmium         ND         0.0001         0.001         0.005         U         0.78805-009           Calcium         77.2         0.2         1.0         ME         B         0.78805-009           Calcium         77.2         0.2         1.0         ME         B         0.78805-009           Chromium         0.000215         0.001         0.001         0.001         0.001         0.01           Cobalt         0.00025         0.0001         0.001         0.01         0.01         0.01         0.01           Copper         0.00025         0.0002         0.001         0.01         0.01         0.01         0.025         0.01         0.025         0.01         0.025         0.02         0.0		Barium	0.172	0.0005	0.002	2			079805-009	SW846 3005
Cadmium         ND         0.0001         0.001         0.005         U         P         C79805-009           Calcium         77.2         0.2         1,0         NE         B. J         0.79805-009           Calcium         77.2         0.001         0.003         0.01         B. J         0.79805-009           Chromium         0.00215         0.001         0.001         0.001         0.001         NE         J         0.79805-009           Copper         0.000659         0.0007         0.001         NE         J         0.79805-009         0.79805-009           Iron         0.288         0.01         0.002         0.01         0.025         NE         J         0.79805-009           Magnesium         13.3         0.005         0.015         NE         D         0.79805-009           Marcury         ND         0.005		Beryllium	QN	0.0001	0.0005	0.004	ח		079805-009	SW846 3005
Calcium         77.2         0.2         1.0         NE         B         MS         079805-009           Chromium         0.00215         0.001         0.003         0.01         B,J         0.79805-009           Cobatt         0.0002         0.0001         0.001         0.001         0.001         0.001         0.001           Copper         0.000659         0.0002         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.002         0.001         0.002         0.001         0.002         0.0		Cadmium	QN	0.0001	0.001	0.005	ח		079805-009	SW846 3005
Chromium         0.00215         0.001         0.00216         0.001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.001         NE         J         B, J         B, J         0.79805-009           Copper         0.000659         0.0002         0.001         NE         J         0.79805-009         0.79805-009           Iron         0.288         0.01         0.0025         NE         N         0.79805-009         0.79805-009           Magnesium         13.3         0.005         0.015         NE         N         0.79805-009         0.79805-009           Mercury         ND         0.0005         0.005         0.005         0.005         N         0         0.79805-009           Nickel         ND         0.0005         0.0005         0.005         N         D         0.79805-009           Selenium         0.00439         0.0005         0.005         0.005         0.005         D         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005		Calcium	77.2	0.2	1.0	NE	В		00-508620	SW846 3005
Cobalit         0.0002         0.0001         0.0001         0.0001         NE         J         079805-009           Copper         0.000659         0.0002         0.001         NE         J         079805-009           Iron         0.298         0.01         0.005         0.005         0.015         NE         U         079805-009           Magnesium         ND         0.006         0.005         0.015         NE         U         078805-009           Mercury         ND         0.0006         0.005         0.005         NE         U         078805-009           Nickel         ND         0.0006         0.0005         0.002         NE         U         078805-009           Nickel         ND         0.0006         0.0005         NE         U         078805-009           Potassium         1.772         0.006         0.002         NE         J         078805-009           Silver         ND         0.0025         0.005         0.005         0.005         J         078805-009           Inhillium         ND         0.0025         0.005         0.005         0.005         J         0.005         0.005           Vincillum		Chromium	0.00215	0.001	0.003	0.1	В, Ј	В, Ј	079805-009	SW846 3005
Copper         0.000659         0.0002         0.001         NE         J         079805-009           Iron         0.298         0.01         0.025         NE         U         079805-009           Lead         ND         0.0005         0.005         0.005         NE         U         079805-009           Magnesium         13.3         0.005         0.015         NE         U         079805-009           Marganese         ND         0.0005         0.005         0.005         NE         U         079805-009           Nickel         0.00194         0.0005         0.002         NE         J         079805-009           Nickel         0.00194         0.0005         0.002         NE         J         079805-009           Selenium         1.72         0.08         0.3         NE         U         079805-009           Soliver         ND         0.0002         0.001         NE         U         079805-009           Vanadium         ND         0.0002         0.001         0.002         J         0.002         J           Vanadium         ND         0.002         0.03         NE         U         079805-009		Cobalt	0.0002	0.0001	0.001	NE.	٦		079805-009	SW846 3005
fron         0.298         0.01         0.025         NE         NE         OF         079805-009           Lead         ND         0.0005         0.002         NE         U         079805-009         079805-009           Magnesium         13.3         0.005         0.015         NE         U         079805-009         079805-009           Mercury         ND         0.00194         0.0005         0.002         NE         J         079805-009           Nickel         0.00194         0.0005         0.002         NE         J         079805-009           Nickel         0.00194         0.0005         0.002         NE         J         079805-009           Selenium         0.00439         0.0025         0.005         J         NE         D         079805-009           Sodium         19.2         0.08         0.25         NE         U         079805-009         079805-009           Vanadium         ND         0.0002         0.001         0.002         0.001         0.002         J         D         079805-009           Vanadium         ND         0.00043         0.00043         0.00043         0.0004         0.0004         0.0004		Copper	0.000659	0.0002	0.001	NE	٦		00-508620	SW846 3005
Lead         ND         0.005         0.005         NE         U         079805-009           Magnesium         13.3         0.005         0.015         NE         U         079805-009           Manganese         ND         0.001         0.005         0.005         NE         U         079805-009           Mercury         ND         0.0006         0.0002         0.002         NE         J         079805-009           Nickel         0.00194         0.0005         0.002         0.002         NE         J         079805-009           Selenium         0.00439         0.0025         0.005         0.005         J         079805-009           Silver         ND         0.0025         0.001         NE         U         079805-009           Sodium         19.2         0.08         0.25         NE         U         079805-009           Vanadium         ND         0.0024         0.001         0.002         0.001         0.002         J         0.002           Vanadium         ND         0.0084         0.001         0.001         NE         U         079805-009           Vanadium         ND         0.0028         0.01         NE		Iron	0.298	0.01	0.025	NE			600-908620	SW846 3005
Magnesium         13.3         0.005         0.015         NE         U         079805-009           Manganese         ND         0.001         0.005         NE         U         079805-009           Mercury         ND         0.0006         0.0002         0.002         NE         J         079805-009           Nickel         0.00194         0.0005         0.002         NE         J         079805-009           Selenium         1.72         0.08         0.005         0.005         0.005         J         079805-009           Selenium         ND         0.00025         0.005         0.005         J         D         079805-009           Sodium         19,2         0.08         0.25         NE         U         079805-009           Thallium         ND         0.004         0.001         0.002         J         079805-009           Vanadium         ND         0.002         0.03         NE         U         0         079805-009           Zinc         ND         0.0038         0.001         0.01         NE         N         N         079805-009	WYO-4 01-Aug-06	Lead	QN	0.0005	0.002	NE	n		600-508620	SW846 3005
Manganese         ND         0.001         0.005         NE         U         079805-009           Mercury         ND         0.0006         0.0002         0.002         0.002         U         079805-009           Nickel         0.00194         0.0005         0.002         0.002         0.002         NE         J         079805-009           Selenium         0.00439         0.0025         0.005         0.005         J         D         079805-009           Silver         ND         0.0002         0.001         NE         U         079805-009           Sodium         19.2         0.008         0.001         0.002         J         D         079805-009           Vanadium         ND         0.0004         0.001         0.002         J         D         079805-009           Vanadium         ND         0.002         0.03         NE         U         079805-009           Vanadium         ND         0.002         0.01         NE         N         079805-009		Magnesium	13.3	0.005	0.015	NE			079805-009	SW846 3005
Mercury         ND         0.00006         0.0002         0.002         U         D         0.0865-009           Nickel         0.00194         0.0005         0.002         NE         J         0.79805-009           Potassium         1.72         0.08         0.03         NE         J         0.79805-009           Selenium         0.00439         0.0025         0.001         NE         J         0.79805-009           Silver         ND         0.002         0.001         NE         D         0.79805-009           Sodium         19.2         0.089         0.004         0.001         0.002         J         0.79805-009           Vanadium         ND         0.002         0.03         NE         U         0.79805-009           Vinc         ND         0.003         0.01         NE         U         0.79805-009           Vinc         ND         0.003         0.01         NE         NE         NB         0.79805-009           Vinc         ND         0.003         0.01         NE         NB         NB         0.79805-009		Manganese	QN	0.001	0.005	NE	n		600-908620	SW846 3005
Nickel         0.00194         0.0005         0.002         NE         J         079805-009           Potassium         1.72         0.08         0.03         NE         J         079805-009           Selenium         0.00439         0.0025         0.005         0.005         J         079805-009           Silver         ND         0.0002         0.001         NE         U         079805-009           Thallium         0.000515         0.0004         0.001         0.002         J         079805-009           Vanadium         ND         0.002         0.03         NE         U         079805-009           Vanadium         ND         0.002         0.01         NE         B, J         079805-009		Mercury	QN	0.00006	0.0002	0.002	n		600-508620	SW846 7470
Potassium         1.72         0.08         0.3         NE         Potassium         0.09805-009           Selenium         0.00439         0.0025         0.005		Nickel	0.00194	0.0005	0.002	NE	Ŋ		079805-009	SW846 3005
Selenium         0.00439         0.0025         0.005         0.005         J         D         079805-009           Silver         ND         0.0002         0.001         NE         U         079805-009           Sodium         19.2         0.08         0.025         NE         N         079805-009           Thallium         ND         0.002         0.03         NE         U         079805-009           Zinc         0.0038         0.002         0.01         NE         B, J         B, J         079805-009		Potassium	1.72	0.08	0.3	NE			600-508620	SW846 3005
Silver         ND         0.0002         0.001         NE         U         079805-009           Sodium         19.2         0.08         0.25         NE         J         079805-009           Thallium         0.000515         0.0004         0.001         0.002         J         079805-009           Vanadium         ND         0.002         0.01         NE         U         079805-009           Zinc         0.0038         0.002         0.01         NE         B, J         B, J         079805-009		Selenium	0.00439	0.0025	0.005	0.05	Ŋ		079805-009	SW846 3005
Sodium         19.2         0.08         0.25         NE         NE         0.0965-009           Thallium         0.000515         0.0004         0.001         0.002         J         0.09805-009           Vanadium         ND         0.002         0.01         NE         U         B, J         079805-009           Zinc         0.0038         0.002         0.01         NE         B, J         B, J         079805-009		Silver	QN	0.0002	0.001	NE	n		600-508620	SW846 3005
Thallium         0.000515         0.0004         0.001         0.002         0.003         0.003         0.001         0.001         0.001         NE         U         B, J         0.79805-009           Zinc         0.0038         0.002         0.01         NE         B, J         B, J         079805-009		Sodium	19.2	0.08	0.25	NE			600-908620	SW846 3005
Vanadium         ND         0.002         0.003         NE         U         R,J         PB,J         079805-009           Zinc         0.0038         0.002         0.01         NE         B,J         B,J         079805-009		Thallium	0.000515	0.0004	0.001	0.002	Ŋ		600-908620	SW846 3005
Zinc         0.0038         0.002         0.01         NE         B, J         B, J         079805-009		Vanadium	QN	0.002	0.03	NE	n		600-908620	SW846 3005
			0.0038	0.002	0.01	NE	В, Ј	В, Ј	600-208620	SW846 3005

Summary of Tritium, Gross Alpha, Gross Beta, and Gamma Spectroscopy Results Tijeras Arroyo Groundwater Investigation Table TAG E-6

WellID	Analyte	Activity³ (pCi/L)	MDA <sup>h</sup> (pCi/L)	Critical Level <sup>b</sup> (pCi/L)	MCL⁴ (pCi/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Tritium	-88 ± 153	242	117	빙	Э		079777-036	EPA 906.0 M
	Gross Alpha	1.68 ± 0.888	0.878	0.386	15			079777-034	EPA 900.0
	Gross Beta	$4.22 \pm 1.64$	2.58	1.25	4mrem/yr			079777-034	EPA 900.0
PGS-2	Americium-241	-25.4 ± 11.0	18.2	8.87	NE	n		079777-033	EPA 901.1
00-100-00	Cesium-137	0.929 ± 4.31	3.40	1.61	빙	n		079777-033	EPA 901.1
	Cobalt-60	-1.04 ± 2.09	3.51	1.62	빙	D		079777-033	EPA 901.1
	Potassium-40	$77.1 \pm 26.2$	77.1	26.4	NE	n	m	079777-033	EPA 901.1
	Tritium	-67.8 ± 108	196	93.9	빙	n		079812-036	EPA 906.0 M
	Gross Alpha	2.92 ± 0.925	1.08	0.480	15			079812-034	EPA 900.0
7	Gross Beta	3.35 ± 1.69	2.74	1.34	4mrem/yr			079812-034	EPA 900.0
A1-W-U1   03-A119-06	Americium-241	0.989 ± 5.29	9.00	4.38	Ŋ	n		079812-033	EPA 901.1
00-870-00	Cesium-137	-1.41 ± 1.82	3.14	1.49	NE	n		079812-033	EPA 901.1
	Cobalt-60	$0.680 \pm 2.14$	3.83	1.80	빙	n		079812-033	EPA 901.1
	Potassium-40	43.6 ± 23.5	43.9	20.7	빙	n		079812-033	EPA 901.1
	Tritium	236 ± 152	238	115	빙	n		980-62460	EPA 906.0 M
	Gross Alpha	$3.86 \pm 1.03$	996.0	0.418	15			079779-034	EPA 900.0
,	Gross Beta	3.54 ± 1.48	2.28	1.11	4mrem/yr			079779-034	EPA 900.0
181-W-02 15-A110-06	Americium-241	-4.49 ± 10.7	17.4	8.49	NE	n		079779-033	EPA 901.1
00-8pc-0-	Cesium-137	$2.78 \pm 1.97$	3.72	1.79	NE.	n		079779-033	EPA 901.1
	Cobalt-60	$0.706 \pm 2.13$	3.94	1.85	NE	n		079779-033	EPA 901.1
	Potassium-40	190 ± 32.1	190	33.8	NE	n		079779-033	EPA 901.1
	Tritium	-70.4 ± 116	209	100	빙	Π		079803-036	EPA 906.0 M
	Gross Alpha	$2.45 \pm 2.26$	3.59	1.62	15	n		079803-034	EPA 900.0
CO /W FVE	Gross Beta	$5.12 \pm 3.89$	6.41	3.11	4mrem/yr	n		079803-034	EPA 900.0
1A1-W-U3 26-1::1-06	Americium-241	$-8.29 \pm 12.6$	20.1	9.77	NE	n		079803-033	EPA 901.1
00-100-04	Cesium-137	$-0.84 \pm 1.92$	2.84	1.35	NE	n		079803-033	EPA 901.1
	Cobalt-60	$1.19 \pm 1.88$	3.53	1.65	NE	n		079803-033	EPA 901.1
	Potassium-40	$61.9 \pm 23.8$	61.9	23.1	NE	n		079803-033	EPA 901.1
	Tritium	118 ± 137	230	111	NE	n		079792-036	EPA 906.0 M
	Gross Alpha	$3.08 \pm 1.09$	1.28	0.584	15			079792-034	EPA 900.0
10 W 14 F	Gross Beta	$1.99 \pm 1.70$	3.22	1.58	4mrem/yr	n		079792-034	EPA 900.0
1A I-W-04	Americium-241	$-46.6 \pm 11.4$	15.1	7.37	NE	n		079792-033	EPA 901.1
00-50-04	Cesium-137	$1.04 \pm 3.72$	3.17	1.52	NE	n		079792-033	EPA 901.1
	Cobalt-60	$-0.571 \pm 1.91$	3.25	1.52	N	n		079792-033	EPA 901.1
	Potassium-40	$75.8 \pm 22.1$	75.9	22.3	NE	n		079792-033	EPA 901.1
Refer to footnotes on page 45.									

Summary of Tritium, Gross Alpha, Gross Beta, and Gamma Spectroscopy Results Tijeras Arroyo Groundwater Investigation Table TAG E-6

19(s) 60.4±143 234 113 NE   2.85±144 2.34 113 NE   2.85±144 2.31 1.12 4mrem/yr 1.3.24±9.35 13.6 6.82 NE   -0.484±1.98 3.23 1.67 NE   2.0.586±2.04 3.33 1.67 NE   2.10±23.6 41.5 20.8 NE   2.29±1.79 2.96 1.19 NE   1.61±1.03 1.61±1.03 1.40 0.635 15   2.29±1.79 2.96 1.44 4mrem/yr 1.70±3.10 5.81 2.72 NE   1.70±3.10 5.81 2.72 NE   1.70±3.10 5.81 2.72 NE   1.70±3.10 5.81 2.72 NE   2.29±1.79 2.96 1.46 4mrem/yr 2.41±3.96 6.15 3.00 NE   1.70±3.10 5.81 2.72 NE   1.70±3.10 5.81 2.72 NE   2.29±1.79 3.27 1.46 15   2.29±1.79 3.27 1.46 15   2.29±1.79 3.27 1.46 15   2.29±1.79 3.27 1.46 15   3.05±2.17 3.27 1.46 NE   0.0454±2.09 3.68 1.77 NE   0.0529±4.76 3.81 1.77 NE   1.13±1.01 1.49 0.684 15   1.13±1.01 1.49 0.684 15   1.15±1.01 1.49 0.684 15   1.15±1.01 1.49 0.684 15   2.20±1.79 0.655±1.74 NE   2.20±1.79 NE   2.20±1.79 0.684 1.5   2.20±1.79	Well ID	Analyte	Activity <sup>a</sup> (pCi/L)	MDA <sup>h</sup> (pCi/L)	Critical Levelb (pCi/L)	MCL <sup>d</sup> (pCi/L)	Laboratory Qualifier*	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
Tritium (re-analysis) 6.04 ± 143 234 113 NE  Gross Alpha 0.719 ± 1.02 1.53 0.709 15  Gross Beta 2.85 ± 1.44 2.31 1.12 4mrem/yr  Americium-241 -3.24 ± 1.38 6.82 NE  Cesium-137 -0.494 ± 1.98 12.33 1.67 NE  Cesium-137 -0.494 ± 1.98 12.33 1.67 NE  Cobalt-60 -0.588 ± 2.04 3.33 1.67 NE  Tritium (re-analysis) 3.6.9 ± 101 179 81.9 NE  Tritium (re-analysis) 3.6.9 ± 101 179 81.9 NE  Tritium (re-analysis) 3.6.9 ± 101 179 0.635 15  Gross Alpha 1.61 ± 1.03 1.40 0.635 15  Cobalt-60 1.70 ± 3.10 1.94 ± 3.11 5.57 2.67 NE  Potassium-40 5.0.4 ± 6.60 51.9 2.41 NE  Tritium 1.03 ± 1.21 2.04 1.04 1.05 1.04 1.05  Cobalt-60 0.629 ± 4.76 3.88 1.07 NE  Cobalt-60 0.629 ± 4.76 3.81 1.77 NE  Cobalt-60 0.629 ± 4.76 3.81 1.79 NE  Cobalt-60 0.629 ± 4.76 1.34 1.101 1.49 0.684 1.5  Cobalt-60 0.659 ± 1.74 3.05 1.128 4mrem/yr  Gross Beta 0.657 ± 1.54 1.05 1.128 NE  Cobalt-60 0.659 ± 1.74 3.05 1.144 NE  Cobalt-60 0.659 ± 1.74 3.04 1.144 NE  Cobalt-60 0.659 ± 1.74 1.144 NE  Cobalt-60 0.659 ± 1.74 1.144 NE  Cob		Tritium	25.4 ± 749	1050	513	NE	n		079782-036	EPA 906.0 M
Gross Alpha 0,719±1,02 1,53 0,709 15  Gross Beta 2,85±1,44 2,31 1,12 4mem/yr Americium-241 3.24±9.35 13.6 6.82 NE Cestium-137 0,484±1,98 3.23 1,67 NE Colastium-40 2,10,423.6 41.5 20.8  Triftium (re-analysis) 36.9±101 179 81.9 NE Triftium (re-analysis) 36.9±101 179 81.9 NE Triftium (re-analysis) 36.9±101 179 81.9 NE Gross Alpha 1,61±1,03 1,40 0,635 15 Gross Beta 2,29±1,79 2,96 1,44 4mem/yr Americium-241 2,41±3,96 6.15 3,00 NE Triftium 103±121 204 98.0 NE Gross Beta 5,71±4,15 6.82 3.31 4mrem/yr Americium-241 3,72±11,5 17,3 84.5 NE Cobalt-60 0,529±4,76 3,81 1,77 NE Triftium -100±153 242 11,7 NE Triftium -100±153 242 11,7 NE Gross Beta 0,557±1,54 2,82 11,28 4mrem/yr Gross Beta 0,557±1,54 2,82 11,28 4mrem/yr Gross Beta 0,557±1,54 2,82 11,28 4mrem/yr Gross Beta 0,557±1,54 2,82 11,54 NE Gross Beta 0,557±1,54 2,82 11,54 NE Gross Beta 0,557±1,54 2,82 11,54 NE Gross Beta 0,557±1,54 2,83 11,54 NE Gross Holden 1,13±1,01 1,49 0,684 11,54 NE		Tritium (re-analysis)	$60.4 \pm 143$	234	113	NE	n		079782-R36	EPA 906.0 M
Gross Beta         2.85 ± 1.44         2.31         1.12         4mremyr           Americium-241         -3.24 ± 9.35         13.6         6.82         NE           Coesium-137         -0.484 ± 1.98         3.23         1.62         NE           Coesium-137         -0.586 ± 2.04         3.33         1.67         NE           Coesium-137         21.0 ± 2.36         41.5         20.8         NE           Tritium (re-analysis)         36.9 ± 10.1         179         81.9         NE           Tritium (re-analysis)         36.9 ± 10.1         179         81.9         NE           Gross Alpha         1.61 ± 1.03         1.40         0.635         15           Gross Leta         2.29 ± 1.79         2.95         1.44         4mremyr           Americium-241         -2.41 ± 3.96         6.15         3.00         NE           Coesium-137         1.79 ± 3.10         2.87         NE         NE           Potassium-40         50.4 ± 6.9         5.57         2.87         NE           Gross Alpha         3.05 ± 2.17         3.27         1.46         1.5           Gross Leta         5.71 ± 4.15         6.82         3.31         4mrem/yr           Americiu		Gross Alpha	$0.719 \pm 1.02$	1.53	0.709	15	n		079782-034	EPA 900.0
Americum-241         -3.24 ± 9.35         13.6         6.82         NE           Cosium-137         -0.484 ± 1.98         3.23         1.62         NE           Cobalt-60         -0.586 ± 2.04         3.33         1.67         NE           Potassium-40         21.0 ± 23.6         41.5         20.8         NE           Tritium         Tritium         1.01 ± 1.70         246         11.9         NE           Gross Bela         2.29 ± 1.79         2.95         1.44         4mremyr           Americum-241         2.21 ± 3.96         6.15         3.00         NE           Cosium-137         1.94 ± 3.11         5.57         2.67         NE           Cobalt-60         1.70 ± 3.10         5.81         2.72         NE           Tritium         103 ± 12.1         2.04         98.0         NE           Gross Alpha         3.05 ± 2.17         3.27         1.46         ME           Gross Bela         3.05 ± 2.17         3.27         NE         NE           Tritium         103 ± 1.21         2.04         98.0         NE         NE           Gross Bela         3.05 ± 2.17         3.24         NE         NE         NE <td< td=""><td>TA1-W-05</td><td>Gross Beta</td><td>2.85 ± 1.44</td><td>2.31</td><td>1.12</td><td>4mrem/yr</td><td></td><td></td><td>079782-034</td><td>EPA 900.0</td></td<>	TA1-W-05	Gross Beta	2.85 ± 1.44	2.31	1.12	4mrem/yr			079782-034	EPA 900.0
Cobalt-60 -0.586 ± 2.04 3.33 1.67 NE Cobalt-60 -0.586 ± 2.04 3.33 1.67 NE Potassium-40 2.10 ± 2.36 4.1.5 20.8 NE Tritium (re-analysis) 3.47 ± 170 2.46 1.19 NE Gross Beta 2.29 ± 1.79 2.95 1.44 Amremyr Americium-241 -2.41 ± 3.96 6.15 3.00 NE Cosium-137 1.94 ± 3.11 5.57 2.67 NE Tritium (a. 2.24 ± 3.96 6.15 3.00 NE Cossum-137 1.03 ± 3.11 5.57 2.67 NE Tritium 1.03 ± 1.21 2.04 98.0 NE Gross Beta 3.05 ± 2.17 3.27 NE Tritium 241 2.372 1.14 1.15 NE Tritium 241 3.05 ± 2.17 3.27 1.14 NE Cobalt-60 0.529 ± 4.76 3.81 1.77 NE Cobalt-60 0.529 ± 4.76 3.81 1.79 NE Cossum-40 1.70 ± 3.12 1.71 3.26 NE Tritium -103 ± 1.21 1.49 0.684 1.15 Gross Beta 0.557 ± 1.54 2.62 1.28 Amremyr Gross Beta 0.557 ± 1.54 2.62 1.28 Amremyr Cobalt-60 0.559 ± 4.76 1.38 6.73 NE Cossum-137 0.0165 ± 1.71 3.06 ± 1.75 Cobalt-60 0.559 ± 4.76 1.38 0.684 1.5 Cossum-137 0.0165 ± 1.71 3.06 ± 1.74 NE Cossum-137 0.0165 ± 1.71 3.06 ± 1.74 NE Cobalt-60 0.550 ± 1.54 3.08 ± 1.64 NE Cobalt-60 0.550 ± 1.74 3.08 ± 1.74 NE Cobalt-60 0.550 ± 1.74 NE Cobalt-60 0.550 ± 1.74 NE Cobalt-60 0.550 ± 1.74 NE Cobal	11-Jul-06	Americium-241	$-3.24 \pm 9.35$	13.6	6.82	NE	n		079782-033	EPA 901.1
Cobalt-60         -0.586 ± 2.04         3.33         1.67         NE           Potassium-40         21.0 ± 23.6         41.5         20.8         NE           Tritium         347 ± 170         246         119         NE           Gross Alpha         1.61 ± 1.03         1.40         0.635         1.5           Gross Alpha         1.61 ± 1.03         1.40         0.635         1.5           Gross Bata         2.29 ± 1.79         2.95         1.44         4mrem/yr           Americium-241         2.24 ± 3.96         6.15         3.00         NE           Cobalt-60         1.70 ± 3.10         5.87         2.67         NE           Cobalt-60         1.70 ± 3.10         5.81         2.72         NE           Orbatssium-40         5.04 ± 56.0         51.9         24.1         NE           Gross Alpha         5.71 ± 4.15         8.85         NE         NE           Gross Beta         5.71 ± 4.15         8.85         NE         NE           Ocbalt-60         0.529 ± 4.76         3.68         1.77         NE           Ocbalt-60         0.529 ± 4.76         3.61         NE         NE           Ocbalt-60         0.529 ± 4.76 <td< td=""><td></td><td>Cesium-137</td><td>-0.484 ± 1.98</td><td>3.23</td><td>1.62</td><td>NE</td><td>n</td><td></td><td>079782-033</td><td>EPA 901.1</td></td<>		Cesium-137	-0.484 ± 1.98	3.23	1.62	NE	n		079782-033	EPA 901.1
Fritium (re-analysis) 36.9±101 179 81.9 NE Tritium (re-analysis) 36.9±101 179 81.9 NE Tritium (re-analysis) 36.9±101 179 81.9 NE Gross Alpha 161±1.03 1.40 0.635 15 Gross Beta 2.29±1.79 2.95 1.44 4mrem/yr Americium-241 2.24±3.96 6.15 3.00 NE Cobalt-60 1.70±3.10 5.81 2.72 NE Gross Alpha 5.71±4.15 2.04 98.0 NE Tritium 103±121 2.04 98.0 NE Gross Beta 5.71±4.15 17.3 8.45 NE Cobalt-60 0.529±4.76 3.81 1.77 NE Cobalt-60 0.552±4.76 3.81 1.77 NE Cobalt-60 0.552±4.76 3.81 1.79 NE Gross Alpha 1.13±1.01 1.49 0.684 1.5 Gross Alpha 0.557±1.54 2.62 1.28 4mrem/yr Gross Alpha 1.13±1.01 1.49 0.684 1.5 Gross Alpha 0.557±1.54 2.62 1.28 4mrem/yr Gross Beta 0.557±1.54 2.62 1.28 4mrem/yr Gross Alpha 0.557±1.54 2.62 1.28 NE Tritium -100±153 2.62 1.28 4mrem/yr Gross Beta 0.557±1.54 2.62 1.28 4mrem/yr Gross Beta 0.557±1.54 2.62 1.28 4mrem/yr Gross Alpha 0.565±1.71 3.08±7.66 1.38 6.73 NE Gross Alpha 0.555±1.82 3.31 1.54 NE		Cobalt-60	-0.586 ± 2.04	3.33	1.67	NE	n		079782-033	EPA 901.1
Tritium (re-analysis) 36.9 ± 101 179 81.9 NE  Tritium (re-analysis) 36.9 ± 101 179 81.9 NE  Gross Alpha 1.61 ± 1.03 1.40 0.635 15  Gross Alpha 2.29 ± 1.79 2.95 14.4 4 4mrem/yr  Cobalt-60 1.70 ± 3.10 5.81 2.72 NE  Dotassium-40 50.4 ± 56.0 51.9 2.4.1 NE  Tritium 103 ± 12.1 2.04 98.0 NE  Gross Alpha 3.05 ± 2.17 3.27 1.46 NE  Cosium-137 1.04 ± 3.17 2.04 98.0 NE  Gross Alpha 3.05 ± 2.17 3.27 1.46 NE  Cosium-137 2.02 ± 1.5 17.3 8.45 NE  Cosium-137 0.0454 ± 2.09 3.68 1.77 NE  Orosalt-60 0.529 ± 4.76 3.81 1.77 NE  Gross Alpha 1.13 ± 1.01 1.49 0.684 1.79 NE  Gross Alpha 1.13 ± 1.01 1.49 0.684 1.79 NE  Gross Alpha 1.13 ± 1.01 1.49 0.684 1.79 NE  Gross Alpha 1.13 ± 1.01 1.49 0.684 1.79 NE  Gross Alpha 1.13 ± 1.01 1.49 0.684 1.79 NE  Gross Alpha 1.13 ± 1.01 1.54 NE  Gross Imm-137 0.016 ± 1.71 3.02 1.44 NE  Gross Imm-137 0.015 ± 1.82 1.18 NE  Cobalt-60 0.015 ± 1.81 1.81 1.81 NE  Cobalt-60 0.015 ± 1.82 1.81 NE		Potassium-40	21.0 ± 23.6	41.5	20.8	IJN.	ח		079782-033	EPA 901.1
Tritium (re-analysis) 36.9±101 179 81.9 NE  Gross Alpha 1.61±1.03 1.40 0.635 15  Gross Beta 2.29±1.79 2.95 1.44 4mremýr Americium-241 2.41±3.96 6.15 3.00 NE  Cesium-137 1.94±3.11 5.57 2.67 NE  Cobalt-60 1.70±3.10 5.81 2.72 NE  Potassium-40 50.4±6.0 51.9 24.1 NE  Gross Alpha 3.05±2.17 3.27 1.46 15  Gross Beta 5.71±4.15 6.82 3.31 4mrem/yr  Americium-241 -3.72±11.5 17.3 8.45 NE  Cobalt-60 0.529±4.76 3.81 1.79 NE  Gross Alpha 1.13±1.01 1.49 0.684 4mrem/yr  Gross Alpha 0.557±1.54 2.69 3.68 1.77 NE  Gross Alpha 1.13±1.01 1.49 0.684 4mrem/yr  Gross Alpha 0.557±1.54 2.62 1.28 Amrem/yr  Gross Alpha 1.13±1.01 1.49 0.684 Mmem/yr  Gross Beta 0.557±1.54 2.62 1.28 Amrem/yr  Gross Beta 0.557±1.54 2.62 1.28 Amrem/yr  Gross Beta 0.557±1.54 2.62 1.28 Amrem/yr  Gross Beta 0.557±1.54 2.62 1.28 NE  Cesium-137 -0.105±1.71 3.02 1.44 NE  Cobalt-60 0.557±1.71 3.02 1.44 NE		Tritium	347 ± 170	246	119	NE			980-96260	EPA 906.0 M
Gross Alpha         1.61±1.03         1.40         0.635         15           Gross Beta         2.29±1.79         2.95         1.44         4mrem/yr           Americium-241         -2.41±3.96         6.15         3.00         NE           Cesium-137         1.94±3.11         5.57         2.67         NE           Cobalt-60         1.70±3.10         5.81         2.72         NE           Potassium-40         50.4±56.0         51.9         24.1         NE           Gross Alpha         3.05±2.17         204         98.0         NE           Gross Beta         5.71±4.15         6.82         3.31         4mrem/yr           Americium-241         -3.72±11.5         17.3         8.45         NE           Cobalt-60         0.529±4.76         3.81         1.77         NE           Cobalt-60         0.529±4.76         3.81         1.79         NE           Potassium-40         1.0±153         2.42         117         NE           Gross Alpha         1.13±1.01         1.49         0.684         15           Gross Beta         0.557±1.54         2.62         1.28         4mrem/yr           Gross Beta         0.10±1.71         3.08<		Tritium (re-analysis)	36.9 ± 101	179	81.9	ЫN	n		079796-R36	EPA 906.0 M
Gross Beta         2.29 ± 1.79         2.95         1.44         4mremyr           Americium-241         -2.41 ± 3.96         6.15         3.00         NE           Cesium-137         1.94 ± 3.11         5.57         2.67         NE           Cobalt-60         1.70 ± 3.10         5.81         2.72         NE           Potassium-40         50.4 ± 56.0         51.9         24.1         NE           Tritium         103 ± 12.1         204         98.0         NE           Gross Alpha         3.05 ± 2.17         3.27         1.46         15           Gross Beta         5.71 ± 4.15         6.82         3.31         4mrem/yr           Americium-241         -3.72 ± 11.5         17.3         8.45         NE           Cesium-137         -0.0454 ± 2.09         3.68         1.77         NE           Potassium-40         1.70 ± 31.2         17.1         32.6         NE           Potassium-40         1.70 ± 31.2         1.79         NE           Gross Alpha         -1.00 ± 153         2.42         11.7         NE           Gross Beta         0.557 ± 1.54         2.62         1.28         4mrem/yr           Gross Alpha         0.557 ± 1.54		Gross Alpha	1.61 ± 1.03	1.40	0.635	15			079796-034	EPA 900.0
Americium-241         -2.41±3.96         6.15         3.00         NE           Cesium-137         1.94±3.11         5.57         2.67         NE           Cobalt-60         1.70±3.10         5.81         2.67         NE           Potassium-40         50.4±56.0         51.9         24.1         NE           Gross Alpha         3.05±2.17         204         98.0         NE           Gross Beta         5.71±4.15         6.82         3.31         4mrem/yr           Americium-241         -3.72±11.5         17.3         8.45         NE           Cobalt-60         0.529±4.76         3.81         1.77         NE           Potassium-40         1.70±31.2         17.1         32.6         NE           Potassium-40         1.70±15.2         1.71         NE         NE           Gross Alpha         1.13±1.01         1.49         0.684         15           Gross Beta         0.557±1.54         2.62         1.28         4mrem/yr           Gross Beta         0.105±1.71         3.02         1.44         NE           Cesium-137         0.105±1.71         3.02         1.44         NE           Goostle-60         0.105±1.71         3.31 <td>TA1-W-06</td> <td>Gross Beta</td> <td>2.29 ± 1.79</td> <td>2.95</td> <td>1.44</td> <td>4mrem/yr</td> <td>ח</td> <td></td> <td>079796-034</td> <td>EPA 900.0</td>	TA1-W-06	Gross Beta	2.29 ± 1.79	2.95	1.44	4mrem/yr	ח		079796-034	EPA 900.0
Cesium-137         1.94 ± 3.11         5.57         2.67         NE           Cobalt-60         1.70 ± 3.10         5.81         2.72         NE           Potassium-40         50.4 ± 56.0         51.9         24.1         NE           Tritum         103 ± 12.1         204         98.0         NE           Gross Alpha         3.05 ± 2.17         3.27         1.46         15           Gross Alpha         5.71 ± 4.15         6.82         3.31         4mrem/yr           Americium-241         -3.72 ± 11.5         17.3         8.45         NE           Cesium-137         -0.0454 ± 2.09         3.68         1.77         NE           Potassium-40         1.70 ± 31.2         17.1         NE         NE           Potassium-40         1.70 ± 31.2         17.1         32.6         NE           Gross Alpha         1.13 ± 1.01         1.49         0.684         15           Gross Beta         0.557 ± 1.54         2.62         1.28         4mrem/yr           Gross Beta         0.105 ± 1.71         3.02         1.44         NE           Cobalt-60         0.105 ± 1.71         3.31         1.54         NE	10-Jul-06	Americium-241	-2.41 ± 3.96	6.15	3.00	ШN	ס		079796-033	EPA 901.1
Cobalt-60         1.70±3.10         5.81         2.72         NE           Potassium-40         50.4±56.0         51.9         24.1         NE           Tritium         103±121         204         98.0         NE           Gross Alpha         3.05±2.17         3.27         1.46         15           Gross Beta         5.71±4.15         6.82         3.31         4mrem/yr           Americium-241         -3.72±11.5         17.3         8.45         NE           Cesium-137         -0.0454±2.09         3.68         1.77         NE           Potassium-40         170±31.2         17.1         32.6         NE           Potassium-40         170±31.2         17.1         NE         NE           Gross Alpha         1.13±1.01         1.49         0.684         15         Amrem/yr           Gross Alpha         0.557±1.54         2.62         1.28         Amrem/yr         Amrem/yr           Gross Beta         0.557±1.54         3.02         1.44         NE         NE           Cobalt-60         0.105±1.71         3.02         1.44         NE         NE		Cesium-137	1.94 ± 3.11	5.57	2.67	NE	n		079796-033	EPA 901.1
Fotassium-40 50.4 ± 56.0 51.9 24.1 NE Tritium 103 ± 121 204 98.0 NE Gross Alpha 3.05 ± 2.17 3.27 1.46 15 15 Cesium-137 -0.0454 ± 2.09 3.68 1.77 NE Cesium-40 170 ± 31.2 171 32.6 NE Drassium-40 170 ± 31.2 171 32.6 NE Cross Alpha 1.13 ± 1.01 1.49 0.684 15 NE Gross Beta 0.557 ± 1.54 2.62 1.28 4mrem/yr 395 Americium-241 3.08 ± 7.66 13.81 1.44 NE Cesium-137 -0.105 ± 1.71 3.02 1.44 NE Cesium-137 -0.105 ± 1.71 3.02 1.44 NE Cross Hota 0.155 ± 1.82 3.31 1.54 NE Cross Hota 0.155 ± 1.82 3.31 1.55 Hota 0		Cobalt-60	$1.70 \pm 3.10$	5.81	2.72	NE	n		079796-033	EPA 901.1
Tritium         103 ± 121         204         98.0         NE           Gross Alpha         3.05 ± 2.17         3.27         1.46         15           Gross Alpha         5.71 ± 4.15         6.82         3.31         4mrem/yr           Americium-241         -3.72 ± 11.5         17.3         8.45         NE           Cesium-137         -0.0454 ± 2.09         3.68         1.77         NE           Cobalt-60         0.529 ± 4.76         3.81         1.79         NE           Potassium-40         170 ± 31.2         171         32.6         NE           Tritium         -100 ± 153         242         117         NE           Gross Alpha         1.13 ± 1.01         1.49         0.684         15           Gross Beta         0.557 ± 1.54         2.62         1.28         4mrem/yr           Cesium-137         -0.105 ± 1.71         3.02         1.44         NE           Cobalt-60         -0.105 ± 1.71         3.02         1.44         NE		Potassium-40	$50.4 \pm 56.0$	51.9	24.1	NE	n		079796-033	EPA 901.1
Gross Alpha         3.05 ± 2.17         3.27         1.46         15           Gross Beta         5.71 ± 4.15         6.82         3.31         4mrem/yr           Americium-241         -3.72 ± 11.5         17.3         8.45         NE           Cesium-137         -0.0454 ± 2.09         3.68         1.77         NE           Cobalt-60         0.529 ± 4.76         3.81         1.79         NE           Potassium-40         170 ± 31.2         171         32.6         NE           Tritium         -100 ± 153         242         117         NE           Gross Alpha         1.13 ± 1.01         1.49         0.684         15           Gross Beta         0.557 ± 1.54         2.62         1.28         4mrem/yr           Gross Beta         0.0557 ± 1.54         3.08 ± 7.66         13.8         6.73         NE           Cesium-137         -0.105 ± 1.71         3.02         1.44         NE           Cobalt-60         -0.155 ± 1.82         3.31         1.54         NE		Tritium	103 ± 121	204	98.0	NE	n		079807-036	EPA 906.0 M
Gross Beta         5.71 ± 4.15         6.82         3.31         4mrem/yr           Americium-241         -3.72 ± 11.5         17.3         8.45         NE           Cesium-137         -0.0454 ± 2.09         3.68         1.77         NE           Cobalt-60         0.529 ± 4.76         3.81         1.79         NE           Potassium-40         170 ± 31.2         171         32.6         NE           Tritium         -100 ± 153         242         117         NE           Gross Alpha         1.13 ± 1.01         1.49         0.684         15           Gross Beta         0.557 ± 1.54         2.62         1.28         4mrem/yr           Gross Beta         0.557 ± 1.54         2.62         1.24         NE           Cesium-137         -0.105 ± 1.71         3.02         1.44         NE           Cobalt-60         -0.155 ± 1.82         3.31         1.54         NE		Gross Alpha	3.05 ± 2.17	3.27	1.46	15	ס		079807-034	EPA 900.0
Americium-241         -3.72 ± 11.5         17.3         8.45         NE           Cesium-137         -0.0454 ± 2.09         3.68         1.77         NE           Cobalt-60         0.529 ± 4.76         3.81         1.79         NE           Potassium-40         170 ± 31.2         171         32.6         NE           Tritium         -100 ± 153         242         117         NE           Gross Alpha         1.13 ± 1.01         1.49         0.684         15           Gross Beta         0.557 ± 1.54         2.62         1.28         4mrem/yr           Americium-241         3.08 ± 7.66         13.8         6.73         NE           Cobalt-60         -0.155 ± 1.82         3.31         1.54         NE		Gross Beta	5.71 ± 4.15	6.82	3.31	4mrem/yr	n		079807-034	EPA 900.0
Cesium-137         -0.0454 ± 2.09         3.68         1.77         NE           Cobalt-60         0.529 ± 4.76         3.81         1.79         NE           Potassium-40         170 ± 31.2         171         32.6         NE           Tritium         -100 ± 153         242         117         NE           Gross Alpha         1.13 ± 1.01         1.49         0.684         15           Gross Beta         0.557 ± 1.54         2.62         1.28         4mrem/yr           Cesium-137         -0.105 ± 1.71         3.02         1.44         NE           Cobalt-60         -0.155 ± 1.82         3.31         1.54         NE		Americium-241	-3.72 ± 11.5	17.3	8.45	NE	n		079807-033	EPA 901.1
Cobalt-60         0.529 ± 4.76         3.81         1.79         NE           Potassium-40         170 ± 31.2         171         32.6         NE           Tritium         -100 ± 153         242         117         NE           Gross Alpha         1.13 ± 1.01         1.49         0.684         15           Gross Beta         0.557 ± 1.54         2.62         1.28         4mrem/yr           Americium-241         3.08 ± 7.66         13.8         6.73         NE           Cesium-137         -0.105 ± 1.71         3.02         1.44         NE           Cobalt-60         -0.155 ± 1.82         3.31         1.54         NE	5	Cesium-137	$-0.0454 \pm 2.09$	3.68	1.77	NE	n		079807-033	EPA 901.1
Potassium-40         170±31.2         171         32.6         NE           Tritium         -100±153         242         117         NE           Gross Alpha         1.13±1.01         1.49         0.684         15           Gross Beta         0.557±1.54         2.62         1.28         4mrem/yr           Americium-241         3.08±7.66         13.8         6.73         NE           Cesium-137         -0.105±1.71         3.02         1.44         NE           Cobalt-60         -0.155±1.82         3.31         1.54         NE		Cobalt-60	$0.529 \pm 4.76$	3.81	1.79	NE	n		079807-033	EPA 901.1
Tritium         -100 ± 153         242         117         NE           Gross Alpha         1.13 ± 1.01         1.49         0.684         15           Gross Beta         0.557 ± 1.54         2.62         1.28         4mrem/yr           Americium-241         3.08 ± 7.66         13.8         6.73         NE           Cesium-137         -0.105 ± 1.71         3.02         1.44         NE           Cobalt-60         -0.155 ± 1.82         3.31         1.54         NE		Potassium-40	170 ± 31.2	171	32.6	NE	n		079807-033	EPA 901.1
Gross Alpha         1.13 ± 1.01         1.49         0.684         15           Gross Beta         0.557 ± 1.54         2.62         1.28         4mrem/yr           Americium-241         3.08 ± 7.66         13.8         6.73         NE           Cesium-137         -0.105 ± 1.71         3.02         1.44         NE           Cobalt-60         -0.155 ± 1.82         3.31         1.54         NE		Tritium	-100 ± 153	242	117	NE	n		98-036	EPA 906.0 M
Gross Beta         0.557 ± 1.54         2.62         1.28         4mrem/yr           Americium-241         3.08 ± 7.66         13.8         6.73         NE           Cesium-137         -0.105 ± 1.71         3.02         1.44         NE           Cobalt-60         -0.155 ± 1.82         3.31         1.54         NE		Gross Alpha	1.13 ± 1.01	1.49	0.684	15	ח		079788-034	EPA 900.0
Americium-241       3.08 ± 7.66       13.8       6.73       NE         Cesium-137       -0.105 ± 1.71       3.02       1.44       NE         Cobalt-60       -0.155 ± 1.82       3.31       1.54       NE		Gross Beta	$0.557 \pm 1.54$	2.62	1.28	4mrem/yr	n		079788-034	EPA 900.0
Cesium-137       -0.105 ± 1.71       3.02       1.44       NE         Cobalt-60       -0.155 ± 1.82       3.31       1.54       NE	AZ-NW1-595   13   -06	Americium-241	3.08 ± 7.66	13.8	6.73	NE	n		079788-033	EPA 901.1
-0.155±1.82 3.31 1.54 NE	5	Cesium-137	$-0.105 \pm 1.71$	3.02	1.44	NE	n		079788-033	EPA 901.1
111		Cobalt-60	-0.155 ± 1.82	3.31	1.54	NE	n		079788-033	EPA 901.1
77.5 ± 23.4 77.5 23.8 NE		Potassium-40	77.5 ± 23.4	77.5	23.8	NП	n		079788-033	EPA 901.1

# Table TAG E-6 Summary of Tritium, Gross Alpha, Gross Beta, and Gamma Spectroscopy Results Tijeras Arroyo Groundwater Investigation

Tritium Gross Alpha Gross Beta Gross Beta Gross Beta O5-Jul-06 Cesium-241 Cobalt-60 Potassium-40 Tritium	Analyte	Activity <sup>a</sup> (pCi/L)	MDA <sup>h</sup> (pCi/L)	Critical Level <sup>b</sup> (pCi/L)	MCL <sup>d</sup> (pCi/L)	Laboratory Validation Qualifier Qualifier	Validation Qualifier <sup>í</sup>	Sample No.	Analytical Method <sup>g</sup>
-320		$0.00 \pm 135$	236	113	NE	n	A2, UJ	079775-036	EPA 906.0 M
-320	ha	$0.893 \pm 1.10$	1.81	0.851	15	n		079775-034	EPA 900.0
-320	a	$2.97 \pm 1.67$	2.72	1.33	4mrem/yr			079775-034	EPA 900.0
	1-241	$-11.2 \pm 8.13$	12.9	6.45	NE	n		079775-033	EPA 901.1
Cobalt-60 Potassium Tritium	37	-0.0476 ± 2.04	3.33	1.67	NE	n		079775-033	EPA 901.1
Potassium Tritium		$0.175 \pm 2.05$	3.42	1.71	NE	n		079775-033	EPA 901.1
Tritium	1-40	9.56 ± 45.9	34.0	17.0	NE	n		079775-033	EPA 901.1
		-23.5 ± 131	229	111	NE	n		079801-036	EPA 906.0 M
Gross Alpha	ha	2.04 ± 0.932	1.25	099:0	15			079801-034	EPA 900.0
Gross Beta	a	2.12 ± 1.65	2.72	1.33	4mrem/yr	D		079801-034	EPA 900.0
1Az-W-01 25 1:1 06 Americium-241	1-241	-14.6 ± 10.7	18.0	8.75	빙	n		079801-033	EPA 901.1
Cesium-137	37	0.471 ± 2.15	3.88	1.85	빙	D		079801-033	EPA 901.1
Cobalt-60		0.208 ± 2.11	3.87	1.79	빙	D		079801-033	EPA 901.1
Potassium-40	1-40	41.8 ± 25.6	50.9	24.0	빙	D		079801-033	EPA 901.1
Tritium		0.00 ± 109	191	91.3	빙	D		079816-036	EPA 906.0 M
Gross Alpha	ha	2.99 ± 1.14	1.59	0.742	15			079816-034	EPA 900.0
Gross Beta	a	2.89 ± 1.47	2.37	1.15	4mrem/yr			079816-034	EPA 900.0
1AZ-W-19 08 A.i.a 06 Americium-241	1-241	1.01 ± 9.62	17.1	8.31	빙	D		079816-033	EPA 901.1
Cesium-137	37	$0.043 \pm 2.09$	3.62	1.73	NE	n		079816-033	EPA 901.1
Cobalt-60		1.42 ± 1.99	3.79	1.76	빙	n		079816-033	EPA 901.1
Potassium-40	1-40	5.54 ± 51.3	31.7	14.5	NE	n		079816-033	EPA 901.1
Tritium		-162 ± 136	242	117	NE	n		079810-036	EPA 906.0 M
Gross Alpha	ha	$3.87 \pm 1.69$	2.32	1.05	15			079810-034	EPA 900.0
Gross Beta	a	3.61 ± 2.88	4.78	2.33	4mrem/yr	n		079810-034	EPA 900.0
1AZ-VV-Z6 02_A1.g_06 Ang_06	1-241	-45.9 ± 13.9	18.9	9.21	Ŋ	n		079810-033	EPA 901.1
Cesium-137	37	$0.736 \pm 3.55$	3.65	1.74	NE	n		079810-033	EPA 901.1
Cobalt-60		$-0.581 \pm 2.40$	4.12	1.93	NE	n		079810-033	EPA 901.1
Potassium-40	1-40	100 ± 27.0	100	28.0	빙	n		079810-033	EPA 901.1
Tritium		94.0 ± 146	238	115	빙	n		079790-036	EPA 906.0 M
Gross Alpha	ha	0.625 ± 1.17	1.77	0.803	15	D		079790-034	EPA 900.0
Gross Beta	a	$3.92 \pm 2.35$	4.42	2.17	4mrem/yr	Λ		079790-034	EPA 900.0
1 AZ-VV-Z /   17 - In I-06	1-241	$-6.09 \pm 10.3$	16.8	8.40	NE	n		079790-033	EPA 901.1
Cesium-137	37	$0.150 \pm 2.52$	4.15	2.07	빙	n		079790-033	EPA 901.1
Cobalt-60		2.33 ± 2.80	4.52	2.26	NE	U		079790-033	EPA 901.1
Potassium-40	1-40	-22.6 ± 39.9	55.9	28.0	NE	n		079790-033	EPA 901.1

Summary of Tritium, Gross Alpha, Gross Beta, and Gamma Spectroscopy Results Tijeras Arroyo Groundwater Investigation Table TAG E-6

	24:10:4V	Activitya	MDAh	Critical	MCLd	Laboratory	Validation	9	Analytical
Wellin	Analyte	(bCi/L)	(bCi/L)	(pCi/L)	(bCi/L)	Qualifier	Qualifier	Sample No.	Method9
	Tritium	32.3 ± 108	187	89.4	N	D		079814-036	EPA 906.0 M
	Gross Alpha	$2.75 \pm 1.07$	1.42	0.644	15			079814-034	EPA 900.0
- - -	Gross Beta	$2.16 \pm 1.54$	2.53	1.23	4mrem/yr	n		079814-034	EPA 900.0
1JA-2	Americium-241	-2.22 ± 9.78	17.0	8.27	빙	n		079814-033	EPA 901.1
ov-Aug-vo	Cesium-137	0.383 ± 2.44	3.82	1.81	빙	D		079814-033	EPA 901.1
	Cobalt-60	-1.26 ± 2.48	4.27	1.98	NE	n		079814-033	EPA 901.1
	Potassium-40	39.7 ± 27.7	54.4	25.6	NE	n		079814-033	EPA 901.1
	Tritium	$0.00 \pm 134$	232	113	NE	n		079799-036	EPA 906.0 M
	Gross Alpha	2.52 ± 1.13	1.58	0.723	15			079799-034	EPA 900.0
- -	Gross Beta	4.07 ± 1.82	3.17	1.53	4mrem/yr			079799-034	EPA 900.0
1 JA-3	Americium-241	-5.38 ± 9.17	16.1	7.79	빙	D		079799-033	EPA 901.1
00-100-47	Cesium-137	-0.193 ± 1.91	3.40	1.60	빙	D		079799-033	EPA 901.1
	Cobalt-60	$2.78 \pm 2.20$	4.50	2.09	NE	Λ		079799-033	EPA 901.1
	Potassium-40	30.0 ± 53.0	36.6	16.7	빙	n		079799-033	EPA 901.1
	Tritium	-33.8 ± 110	196	93.6	NE	n		079822-036	EPA 906.0 M
FA7.	Gross Alpha	3.35 ± 1.14	1.30	0.576	15			079822-034	EPA 900.0
<u> </u>	Gross Beta	3.61 ± 1.42	2.08	1.00	4mrem/yr			079822-034	EPA 900.0
1.0A-4 1.4_0110_06	Americium-241	-4.04 ± 12.1	19.6	9.51	NE	n		079822-033	EPA 901.1
DO-BRY-	Cesium-137	$0.848 \pm 1.65$	2.98	1.42	NE	n		079822-033	EPA 901.1
To	Cobalt-60	$0.880 \pm 1.96$	3.62	1.69	NE	D		079822-033	EPA 901.1
	Potassium-40	51.6 ± 23.3	51.6	22.2	NE	D		079822-033	EPA 901.1
	Tritium	-47.2 ± 131	230	111	NE	n		079794-036	EPA 906.0 M
	Gross Alpha	4.44 ± 1.18	1.18	0.532	15			079794-034	EPA 900.0
<u> </u>	Gross Beta	7.70 ± 1.73	2.58	1.26	4mrem/yr			079794-034	EPA 900.0
1 JA-6 1 10- 1-1-06	Americium-241	14.4 ± 10.6	12.6	6.32	NE	×	R	079794-033	EPA 901.1
	Cesium-137	$0.469 \pm 2.26$	3.53	1.77	NE	n		079794-033	EPA 901.1
	Cobalt-60	1.82 ± 2.28	3.96	1.98	NE	n		079794-033	EPA 901.1
	Potassium-40	-23 ± 38.3	50.2	25.1	NE	Π		079794-033	EPA 901.1
	Tritium	$0.00 \pm 108$	190	8.06	NE	n		079818-036	EPA 906.0 M
E	Gross Alpha	$1.70 \pm 0.997$	1.46	0.652	15			079818-034	EPA 900.0
\ -	Gross Beta	1.92 ± 1.29	2.11	1.02	4mrem/yr	n		079818-034	EPA 900.0
11JA-7	Americium-241	-1.11 ± 17.2	20.1	9.85	NE	n		079818-033	EPA 901.1
00-50-C-01-01-01-01-01-01-01-01-01-01-01-01-01-	Cesium-137	$0.719 \pm 1.63$	2.99	1.43	N	D		079818-033	EPA 901.1
7.5.	Cobalt-60	-1.23 ± 1.79	2.99	1.40	빙	D		079818-033	EPA 901.1
	Potassium-40	$4.32 \pm 43.5$	31.7	14.8	N	D		079818-033	EPA 901.1
Kerer to roomotes on page 45.									

# Table TAG E-6 (Concluded) Summary of Tritium, Gross Alpha, Gross Beta, and Gamma Spectroscopy Results Tijeras Arroyo Groundwater Investigation

	Object	Activitya	MDA	Critical	MCL	Laboratory	Validation	ON CIA	Analytical
	Allaiyte	(pCi/L)	(bCi/L)	(pCi/L)	(pCi/L)	Qualifier	Qualifier <sup>(</sup>	Sample No.	Method
	Tritium	-15.6 ± 144	247	119	ШZ	ס		079786-036	EPA 906.0 M
	Gross Alpha	4.50 ± 1.21	1.15	0.513	15			079786-034	EPA 900.0
	Gross Beta	5.05 ± 1.48	2.26	1.10	4mrem/yr			079786-034	EPA 900.0
WY O-3	Americium-241	-3.19 ± 5.69	8.66	4.21	NE	ח		079786-033	EPA 901.1
5	Cesium-137	-0.673 ± 1.77	3.14	1.49	IJN.	ח		079786-033	EPA 901.1
	Cobalt-60	2.06 ± 1.95	3.73	1.75	N	n		079786-033	EPA 901.1
	Potassium-40	46.1 ± 20.5	46.2	20.2	IJN.	ר		079786-033	EPA 901.1
	Tritium	-179 ± 137	246	119	NE	D		079805-036	EPA 906.0 M
	Gross Alpha	2.13 ± 0.828	1.03	0.462	15			079805-034	EPA 900.0
	Gross Beta	2.70 ± 1.56	2.54	1.24	4mrem/yr			079805-034	EPA 900.0
WYO-4 01-4119-06	Americium-241	8.83 ± 9.13	16.8	8.14	IJN.	ח		079805-033	EPA 901.1
	Cesium-137	3.96 ± 3.95	3.40	1.60	NE	×	ď	079805-033	EPA 901.1
	Cobalt-60	-1.35 ± 2.44	3.56	1.63	NE	n		079805-033	EPA 901.1
	Potassium-40	66.9 ± 24.5	0.79	24.9	NE NE	ס		079805-033	EPA 901.1
Defer to footpot as 25									

Refer to footnotes on page 45.

# Table TAG E-7 Summary of Field Water Quality Measurements<sup>†</sup> Tijeras Arroyo Groundwater Investigation

WellID	Sample Date	Temperature (°C)	Specific Conductivity (umho/cm)	Oxidation Reduction Potential (mV)	Hd	Turbidity (NTU)	Dissolved Oxygen (mg/L)
PGS-2	90-Jul-90	20.81	432	216.4	8.10	0.89	1.46
TA1-W-01	03-Aug-06	21.46	485	300.2	7.33	0.62	5.48
TA1-W-02	15-Aug-06	20.33	470	363.8	7.33	2.40	5.51
FA1-W-03	26-Jul-06	20.57	1,566	274.1	7.31	1.90	4.84
TA1-W-04	20-Jul-06	22.32	451	300.5	7.33	0.98	5.09
TA1-W-05	11-Jul-06	20.50	550	324.5	7.16	0.65	6.50
TA1-W-06	10-Jul-06	20.88	791	275.4	7.45	0.50	7.26
TA1-W-08	27-Jul-06	20.70	1,761	283.2	7.28	1.02	6.26
TA2-NW1-595	13-Jul-06	22.90	718	303.6	7.25	0.88	6.70
	24-Oct-05	15.02	464	193.1	7.98	1.80	7.82
000 770 0 4	23-Jan-06	15.17	469	196.0	7.72	18.5	8.01
IAZ-SWI-320	26-Apr-06	16.41	490	17.1	7.33	2.91	8.84
	05-Jul-06	18.72	465	284.8	7.59	1.55	8.00
TA 2 18/ 04	06-Jan-06	17.49	594	71.3	7.62	2.61	8.21
AZ-VV-U	25-Jul-06	21.31	604	268.0	7.49	1.33	7.72
	31-Oct-05	17.14	572	185.4	7.54	1.05	7.33
TA 2 18/ 40	16-Jan-06	16.60	562	28.2	7.73	96.0	1.37
AZ-VV-19	03-May-06	18.25	602	17.0	7.16	0.59	8.52
	08-Aug-06	18.86	562	278.0	7.48	0.68	98'9
	25-Oct-05	17.71	1,028	193.1	7.42	1.65	7.60
30 W CVI	09-Jan-06	16.46	1,019	74.3	7.54	1.70	8.11
AZ-VV-20	27-Apr-06	18.90	1,108	23.6	7.26	0.98	8.61
	02-Aug-06	19.07	1,037	266.9	7.38	1.79	6.79
TA 2 W 27	05-Jan-06	16.01	803	64.8	7.57	1.10	6.97
FZ-VV-Z1	17-Jul-06	20.15	808	294.0	7.39	0.68	7.65
	28-Oct-05	17.56	563	200.5	7.52	2.60	7.50
( <del>&lt;</del>	13-Jan-06	16.11	557	81.6	7.68	1.13	6.94
I JA-Z	28-Apr-06	18.45	594	35.6	7.15	1.19	9.32
	07-Aug-06	19.75	559	290.9	7.48	1.27	96.9
6 < I	04-Jan-06	19.24	464	66.3	7.51	1.05	5.03
0-20	24-Jul-06	20.76	453	256.1	7.43	0.60	6.57
	01-Nov-05	17.59	529	196.7	7.47	2.06	5.07
V <	17-Jan-06	16.12	206	14.8	7.67	0.98	5.86
<b>1-40</b>	04-May-06	18.39	260	12.1	7.20	1.37	8.69
F	14-Aug-06	19.28	505	327.0	7.43	0.79	4.46

Table TAG E-7 Summary of Field Water Quality Measurements<sup>i</sup> Tijeras Arroyo Groundwater Investigation

Well ID	Sample Date	Temperature (°C)	Specific Conductivity (umho/cm)	Oxidation Reduction Potential (mV)	퓹	Turbidity (NTU)	Dissolved Oxygen (mg/L)	
	03-Jan-06	19.55	441	89.5	7.52	2.99	5.14	
1 JA-0	19-Jul-06	22.47	445	290.0	7.37	25.9	4.67	
	03-Nov-05	15.89	504	177.7	7.60	1.52	5.51	
1 <u>-</u> H	19-Jan-06	16.05	500	-25.6	7.66	1.12	9.09	
/-W	09-May-06	18.11	535	25.0	7.18	1.78	8.20	
	10-Aug-06	19.23	496	247.2	7.49	1.01	7.08	
WYO-3	12-Jul-06	23.45	500	322.5	7.43	44.0	6.40	
	27-Oct-05	16.52	592	167.3	7.63	1.71	7.27	
7 024	12-Jan-06	16.73	579	64.3	7.75	1.65	8.19	
V - V - V - V - V - V - V - V - V - V -	02-May-06	19.10	628	16.6	7.26	0.72	8.06	
	01-Aug-06	18.20	584	239.4	7.57	0.93	7.38	
fer to footnotes on page 45	. 45.							

#### Footnotes for Tijeras Arroyo Groundwater Investigation

#### <sup>a</sup>Result

- Values in bold exceed the established MCL.
- ND = not detected (at method detection limit).
- Activities of zero or less are considered to be not detected.
- μg/L = micrograms per liter
- mg/L = milligrams per liter
- pCi/L = picocuries per liter

#### <sup>b</sup>MDL or Critical level

Method detection limit. The minimum concentration or activity that can be measured and reported with 99% confidence that the analyte is greater than zero, analyte is matrix specific.

#### **PQL**

Practical quantitation limit. The lowest concentration of analytes in a sample that can be reliably determined within specified limits of precision and accuracy by that indicated method under routine laboratory operating conditions.

#### dMCL

MCL = Maximum contaminant level. Established by the U.S. Environmental Protection Agency Primary Water Regulations (40 CFR 141.11(b)), and subsequent amendments or the New Mexico Environmental Improvement Board in Title 20, Chapter 7, Part 1 of the New Mexico Administrative Code (20 NMAC 7.10). NE = not established.

The following are the MCLs for gross alpha particles and beta particles in community water systems: 15 pCi/L = Gross alpha particle activity (including radium-226 but excluding radion and total uranium). 4 mrem/yr = any combination of beta and/or gamma emitting radionuclides (as dose rate).

#### <sup>e</sup>Lab Qualifier

- B = Analyte is detected in associated laboratory method blank.
- H = Analytical holding time was exceeded.
- J = Amount detected is below the practical quantitation limit (PQL).
- U = Analyte is absent or below the method detection limit.
- X = Data rejected due to low abundance.

#### **Validation Qualifier**

If cell is blank, then all quality control samples met acceptance criteria with respect to submitted samples.

- A2 = Laboratory accuracy and/or bias measurements for the matrix spike and/or matrix spike duplicate samples do not acceptance criteria.
- B = Analyte present in associated laboratory method blank.
- B1 = Analyte present in associated trip blank sample.
- B2 = Analyte present in associated equipment blank sample.
- B3 = Analyte present in associated continuing calibration blank.
- HT = The holding time was exceeded for the associated sample analysis.
- J = Associate value is an estimated quantity.
- R = The data are unusable for their intended purpose. The analyte may or may not be present.
- UJ = Analyte not detected above laboratory method detection limit, but associated value is an estimate and may be inaccurate or imprecise.
- #U = Analyte was qualified as not detected at listed value.
- #UJ = Analyte was qualified as not detected at the listed value. The value is an estimate.

APPENDICES E-45

#### Footnotes for Tijeras Arroyo Groundwater Investigation (Concluded)

#### <sup>g</sup>Analytical Method

U.S. Environmental Protection Agency, 1990, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846. 3rd ed.

U.S. Environmental Protection Agency, 1983, "The Determination of Inorganic Anions in Water by Ion Chromatography-Method 300.0."

EPA-600/4-84-017.

Analytical method used to detect radionuclides is HASL 300 4.5.2.3;

U.S. Department of Energy, Environmental Measurements Laboratory, 1997, "EML Procedures Manual," 27th ed., Vol. 1, Rev. 1997, HASL-300.

EPA 903.0/904.0: U.S. Environmental Protection Agency, 1980, "Prescribed Procedures for Measurement of Radioactivity in Drinking Water," EPA-600/4-80-032.

#### **hMDA**

The minimal detectable activity or minimum measured activity in a sample required to ensure a 95% probability that the measured activity is accurately quantified above the critical level.

#### Field Water Quality Measurements

Field measurements collected prior to sampling.

°C = degrees Celsius

µmho/cm = micromhos per centimeter

mg/L = milligrams per liter

mV = millivolts

NTU = nephelometric turbidity units

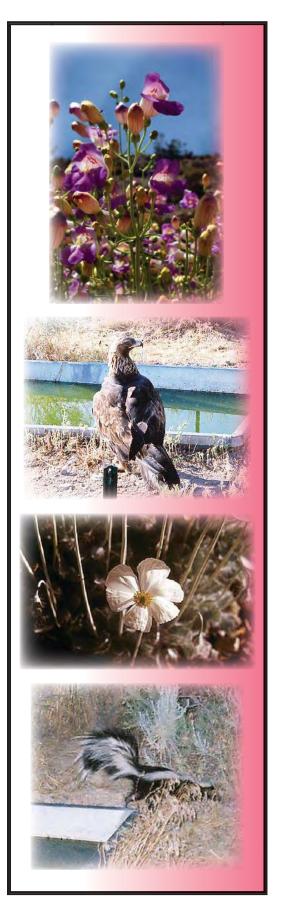
pH = potential of hydrogen (negative logarithm of the hydrogen ion concentration)

#### APPENDIX F

#### Burn Site Groundwater Monitoring Surveillance Task

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Footnotes for	Burn Site Groundwater Monitoring



Summary of Detected Volatile Organic Compounds, Semi-Volatile Organic Compounds, and High Explosives Burn Site Groundwater Monitoring Table BSG F-1

Fiscal Year 2006

WellID	Analyte	Result <sup>a</sup> (µg/L)	MDL <sup>b</sup> (µg/L)	PQL° (µg/L)	MCL <sup>d</sup> (µg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
CYN-MW1D 21-Jun-06	Acetone	4.49	1.25	5.00	N.	7		078684-001	SW846 8260
CYN-MW3 20-Jun-06	Acetone	1.93	1.25	5.00	N.	7		078682-001	SW846 8260
CYN-MW4 19-Jun-06	Acetone	1.91	1.25	5.00	NE	7		078680-001	SW846 8260
CYN-MW7 13-Jun-06	Acetone	2.10	1.25	5.00	NE	٦	5.0UJ, A2, B1	078676-001	SW846 8260
CYN-MW8	Acetone	4.34	1.25	5.00	N N	٦	5.0U, B1	078678-001	SW846 8260
14-Jun-06	Nitrobenzene	0.349	0.0649	0.325	ЭN	P, X	0.349NJ	078678-024	SW846 8330
Refer to footnotes on page 25									

Method Detection Limits for Volatile Organic Compounds, Semi-Volatile Organic Compounds, **Burn Site Groundwater Monitoring** and High Explosives Table BSG F-2

Analyte	MDL <sup>b</sup> (µg/L)	Analytical Method <sup>9</sup>	Analyte	MDL <sup>b</sup> (µg/L)	Analytical Method <sup>9</sup>	Analyte	MDL <sup>b</sup> (µg/L)	Analytical Method <sup>9</sup>
1,1,1-Trichloroethane	0.30	8260	1,4-Dichlorobenzene	1.79 - 1.94	8270	Dinitro-o-cresol	2.68 - 2.91	8270
1,1,2,2-Tetrachloroethane	0.25	8260	2,4,5-Trichlorophenol	0.893 - 0.971	8270	Diphenyl amine	2.68 - 2.91	8270
1,1,2-Trichloroethane	0.25	8260	2,4,6-Trichlorophenol	1.79 - 1.94	8270	Fluoranthene	0.179 - 0.194	8270
1,1-Dichloroethane	0.30	8260	2,4-Dichlorophenol	1.79 - 1.94	8270	Fluorene	0.179 - 0.194	8270
1,1-Dichloroethene	0:30	8260	2,4-Dimethylphenol	1.79 - 1.94	8270	Hexachlorobenzene	1.79 - 1.94	8270
1,2-Dichloroethane	0.25	8260	2,4-Dinitrophenol	8.93 - 9.71	8270	Hexachlorobutadiene	1.79 - 1.94	8270
1,2-Dichloropropane	0.25	8260	2,4-Dinitrotoluene	1.79 - 1.94	8270	Hexachlorocyclopentadiene	1.79 - 1.94	8270
2-Butanone	1.25	8260	2,6-Dinitrotoluene	1.79 - 1.94	8270	Hexachloroethane	1.79 - 1.94	8270
2-Hexanone	1.25	8260	2-Chloronaphthalene	0.313 - 0.34	8270	Indeno(1,2,3-c,d)pyrene	0.179 - 0.194	8270
4-methyl-, 2-Pentanone	1.25	8260	2-Chlorophenol	1.79 - 1.94	8270	Isophorone	1.79 - 1.94	8270
Acetone	1.25	8260	2-Methylnaphthalene	0.268 - 0.291	8270	Naphthalene	0.268 - 0.291	8270
Benzene	0.30	8260	2-Nitroaniline	1.79 - 1.94	8270	Nitro-benzene	2.68 - 2.91	8270
Bromodichloromethane	0.25	8260	2-Nitrophenol	1.79 - 1.94	8270	Pentachlorophenol	1.79 - 1.94	8270
Bromoform	0.25	8260	3,3'-Dichlorobenzidine	0.893 - 0.971	8270	Phenanthrene	0.179 - 0.194	8270
Bromomethane	0.50	8260	3-Nitroaniline	1.79 - 1.94	8270	Phenol	0.893 - 0.971	8270
Carbon disulfide	1.25	8260	4-Bromophenyl phenyl ether	1.79 - 1.94	8270	Pyrene	0.268 - 0.291	8270
Carbon tetrachloride	0.25	8260	4-Chloro-3-methylphenol	1.79 - 1.94	8270	bis(2-Chloroethoxy)methane	2.68 - 2.91	8270
Chlorobenzene	0.25	8260	4-Chlorobenzenamine	1.79 - 1.94	8270	bis(2-Chloroethyl)ether	1.79 - 1.94	8270
Chloroethane	0.50	8260	4-Chlorophenyl phenyl ether	1.79 - 1.94	8270	bis(2-EthylhexyI)phthalate	1.79 - 1.94	8270
Chloroform	0.25	8260	4-Nitroaniline	2.68 - 2.91	8270	bis-Chloroisopropyl ether	1.79 - 1.94	8270
Chloromethane	0.50	8260	4-Nitrophenol	1.79 - 1.94	8270	m,p-Cresols	2.68 - 2.91	8270
Dibromochloromethane	0.25	8260	Acenaphthene	0.277 - 0.301	8270	n-Nitrosodipropylamine	1.79 - 1.94	8270
Ethyl benzene	0.25	8260	Acenaphthylene	0.179 - 0.194	8270	o-Cresol	1.79 - 1.94	8270
Methylene chloride	2.0	8260	Anthracene	0.179 - 0.194	8270	1,3,5-Trinitrobenzene	0.0649	8330
Styrene	0.25	8260	Benzo(a)anthracene	0.179 - 0.194	8270	1,3-Dinitrobenzene	0.0649	8330
Tetrachloroethene	0.25	8260	Benzo(a)pyrene	0.179 - 0.194	8270	2,4,6-Trinitrotoluene	0.162	8330
Toluene	0.25	8260	Benzo(b)fluoranthene	0.179 - 0.194	8270	2,4-Dinitrotoluene	0.162	8330
Trichloroethene	0.25	8260	Benzo(ghi)perylene	0.179 - 0.194	8270	2,6-Dinitrotoluene	0.162	8330
Vinyl acetate	1.5	8260	Benzo(k)fluoranthene	0.179 - 0.194	8270	2-Amino-4,6-dinitrotoluene	0.162	8330
Vinyl chloride	0.50	8260	Butylbenzyl phthalate	1.79 - 1.94	8270	2-Nitrotoluene	0.162	8330
Xylene	0.25	8260	Carbazole	0.179 - 0.194	8270	3-Nitrotoluene	0.126	8330
cis-1,2-Dichloroethene	0.30	8260	Chrysene	0.179 - 0.194	8270	4-Amino-2,6-dinitrotoluene	0.162	8330
cis-1,3-Dichloropropene	0.25	8260	Di-n-butyl phthalate	1.79 - 1.94	8270	4-Nitrotoluene	0.162	8330
trans-1,2-Dichloroethene	0.30	8260	Di-n-octyl phthalate	2.68 - 2.91	8270	HMX	0.162	8330
trans-1,3-Dichloropropene	0.25	8260	Dibenz[a,h]anthracene	0.179 - 0.194	8270	Nitro-benzene	0.0649	8330
1,2,4-Trichlorobenzene	1.79 - 1.94	8270	Dibenzofuran	1.79 - 1.94	8270	RDX	0.162	8330
1,2-Dichlorobenzene	1.79 - 1.94	8270	Diethylphthalate	1.79 - 1.94	8270	Total	0.487	8330
1,3-Dichlorobenzene	1.79 - 1.94	8270	Dimethylphthalate	1.79 - 1.94	8270	letry	0.40	0000

#### Table BSG F-3 Summary of Nitrate plus Nitrite Results Burn Site Groundwater Monitoring

WellID	Sample Date	Nitrate plus Nitrite Resulta (mg/L)	MDL <sup>b</sup>	PQL° (mg/L)	MCL⁴ (mg/L)	Laboratory Qualifier*	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
	06-Dec-05	2.19	0.170	0.50	10	В	B2, J	073545-018	EPA 353.1
	27-Mar-06	0.645	0.014	0.05	10			075982-018	EPA 353.1
	21-Jun-06	0.736	0.014	0.05	10			078684-018	EPA 353.1
	19-Sep-06	3.76	0.014	90.0	10			081624-018	EPA 353.1
CYN-MW1D (Duplicate)	27-Mar-06	0.648	0.014	0.05	10			075983-018	EPA 353.1
CYN-MW3	18-Sep-06	4.10	0.014	0.05	10			081623-018	EPA 353.1
CYN-MW4	15-Sep-06	0.0684	0.014	0.05	10		ВЗ, Ј	081622-018	EPA 353.1
	23-Mar-06	23.9	0.170	0.50	10			075985-018	EPA 353.1
CYN-MW6	22-Jun-06	32.6	0.140	0.50	10			078687-018	EPA 353.1
	20-Sep-06	30.4	0.014	0.05	10			081626-018	EPA 353.1
	23-Mar-06	24.1	0.170	0.50	10			075986-018	EPA 353.1
CTIN-MWG (Duplicate)	22-Jun-06	29.5	0.140	0.50	10			078688-018	EPA 353.1
	20-Mar-06	1.29	0.017	0.05	10			075987-018	EPA 353.1
CYN-MW7	13-Jun-06	0.702	0.014	0.05	10		A2, J	078676-018	EPA 353.1
	13-Sep-06	1.37	0.070	0.25	10	В		081619-018	EPA 353.1
	21-Mar-06	5.70	0.085	0.25	10			075988-018	EPA 353.1
CYN-MW8	14-Jun-06	3.63	0.070	0.25	10			078678-018	EPA 353.1
	14-Sep-06	3.96	0.070	0.25	10			081620-018	EPA 353.1
CYN-MW8 (Duplicate)	14-Sep-06	4.03	0.070	0.25	10			081621-018	EPA 353.1
Refer to footnotes on page 25.									

# Table BSG F-4 Summary of Perchlorate Results Burn Site Groundwater Monitoring

Well ID	Sample Date	Perchlorate Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
	06-Dec-05	QN	0.004	0.012	ВN	n		073545-020	EPA 314.0
	27-Mar-06	QN	0.004	0.012	ЫN	n		075982-020	EPA 314.0
	21-Jun-06	ND	0.004	0.012	NE	n		078684-020	EPA 314.0
	19-Sep-06	ND	0.004	0.012	NE	n		081624-020	EPA 314.0
CYN-MW1D (Duplicate)	27-Mar-06	ND	0.004	0.012	ШZ	n		075983-020	EPA 314.0
	23-Mar-06	0.00692	0.004	0.012	ШZ	7		075985-020	EPA 314.0
		0.00639	0.0005	0.002	IJN.	壬	HT, J	075985-R20	EPA 6850M
	22-Jun-06	0.00663	0.004	0.012	ШZ	7		078687-020	EPA 314.0
0 1 14-101000		0.00699	0.001	0.004	ЫN			078687-021	EPA 6850M
	20-Sep-06	0.00752	0.004	0.012	ШZ	7		081626-020	EPA 314.0
		96900.0	0.001	0.004	ШZ		P2	081626-R20	EPA 6850M
	23-Mar-06	0.00744	0.004	0.012	NE NE	٦		075986-020	EPA 314.0
		0.00648	0.0005	0.002	JN	Hh	HT, J	075986-R20	EPA 6850M
o riv-ivivvo (Duplicate)	22-Jun-06	0.00645	0.004	0.012	ЫN	7		078688-020	EPA 314.0
		0.00692	0.001	0.004	NE			078688-021	EPA 6850M
	20-Mar-06	ND	0.004	0.012	JN	n		075987-020	EPA 314.0
CYN-MW7	13-Jun-06	QN	0.004	0.012	NE NE	η		078676-020	EPA 314.0
	13-Sep-06	ND	0.004	0.012	NE	U		081619-020	EPA 314.0
	21-Mar-06	ND	0.004	0.012	NE	n		075988-020	EPA 314.0
CYN-MW8	14-Jun-06	ND	0.004	0.012	NE	U		078678-020	EPA 314.0
	14-Sep-06	ND	0.004	0.012	NE	U		081620-020	EPA 314.0
CYN-MW8 (Duplicate)	14-Sep-06	QN	0.004	0.012	JN	Π		081621-020	EPA 314.0
Refer to footnotes on page 25.									

Table BSG F-5 Summary of Diesel Range Organics and Gasoline Range Organics Results Burn Site Groundwater Monitoring

WellID	Analyte	Result <sup>a</sup> (µg/L)	MDL <sup>b</sup> (µg/L)	PQL° (µg/L)	MCL <sup>d</sup> (µg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
CYN-MW6	Diesel Range Organics	ON	15.7	47.6	NE	ηN	HT, P2, R	075985-005	SW846 3510C
23-Mar-06	Gasoline Range Organics	QN	25.0	100	Ŋ	ח		075985-006	SW846 8015A
CYN-MW6 (Duplicate	CYN-MW6 (Duplicate)Diesel Range Organics	27.7	15.9	48.1	빙	В, Ј	48.1U, B, B2, P2	075986-005	SW846 3510C
23-Mar-06	Gasoline Range Organics	QN	25.0	100	N	ח		075986-006	SW846 8015A
CYN-MW1D	Diesel Range Organics	55.3	15.9	48.1	N	В	55.3U, B	078684-005	SW846 3510C
21-Jun-06	Gasoline Range Organics	QN	25.0	100	NE	n		078684-006	SW846 8015A
CYN-MW3	Diesel Range Organics	16.3	15.9	48.1	NE	В, Ј	48.1UJ, A2, B	078682-005	SW846 3510C
20-Jun-06	Gasoline Range Organics	QN	25.0	100	NE	n		078682-006	SW846 8015A
CYN-MW4	Diesel Range Organics	18.7	15.9	48.1	NE	В, Ј	48.1U, B	078680-005	SW846 3510C
19-Jun-06	Gasoline Range Organics	QN	25.0	100	NE	n		078680-006	SW846 8015A
CYN-MW6	Diesel Range Organics	30.3	15.7	47.6	NE	В, Ј	47.6U, B	078687-005	SW846 3510C
22-Jun-06	Gasoline Range Organics	QN	25.0	100	NE	n		078687-006	SW846 8015A
CYN-MW6 (Duplicate	CYN-MW6 (Duplicate)Diesel Range Organics	41.6	16.0	48.5	NE	В, Ј	48.5U, B	078688-005	SW846 3510C
22-Jun-06	Gasoline Range Organics	QN	25.0	100	NE	n		078688-006	SW846 8015A
CYN-MW7	Diesel Range Organics	22.4	16.3	49.5	NE	В, Ј	49.5U, B	078676-005	SW846 3510C
13-Jun-06	Gasoline Range Organics	ND	25.0	100	NE	n		078676-006	SW846 8015A
CYN-MW8	Diesel Range Organics	61.8	15.9	48.1	NE	В	61.8U, B	078678-005	SW846 3510C
14-Jun-06	Gasoline Range Organics	QN	25.0	100	NE	n		078678-006	SW846 8015A
CYN-MW6	Diesel Range Organics	27.3	18.3	55.6	NE	J, h	HT, J	081626-005	SW846 3510C
20-Sep-06	Gasoline Range Organics	QN	25.0	100	NE	ח		081626-006	SW846 8015A
Refer to footnotes on page 25	25.								

APPENDICES F-11

### Table BSG F-6 Summary of Anion and Total Dissolved Solid Results Burn Site Groundwater Monitoring

### Fiscal Year 2006

Well ID	Analyte	Resulta (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>	
	Bromide	0.456	990.0	0.20	빙			078684-016	SW846-9056	
CYN-MW1D	Chloride	26.9	99.0	2.0	빙			078684-016	SW846-9056	
21-Jun-06	Fluoride	1.84	0.033	0.10	4			078684-016	SW846-9056	
	Sulfate	104	1.0	4.0	빙			078684-016	SW846-9056	
	Bromide	0.883	0.066	0.20	빙			078682-016	SW846-9056	
CYN-MW3	Chloride	9.99	99.0	2.0	빙			078682-016	SW846-9056	
20-Jun-06	Fluoride	0.628	0.033	0.10	4			078682-016	SW846-9056	
	Sulfate	167	1.0	4.0	빙			078682-016	SW846-9056	
	Bromide	0.399	990'0	0.20	빙			078680-016	SW846-9056	
CYN-MW4	Chloride	26.5	0.33	1.0	빙			078680-016	SW846-9056	
19-Jun-06	Fluoride	0.740	0.033	0.10	4			078680-016	SW846-9056	
	Sulfate	135	0.50	2.0	NE			078680-016	SW846-9056	
	Bromide	0.946	990'0	0.20	NE			078687-016	SW846-9056	
	Chloride	71.3	99.0	2.0	Ŋ			078687-016	SW846-9056	
CYN-MW6 22lin-06	Fluoride	0.640	0.033	0.10	4			078687-016	SW846-9056	
	Sulfate	150	1.0	4.0	Ŋ			078687-016	SW846-9056	
	Total Dissolved Solids	912	2.38	10.0	NE			078687-019	EPA 160.1	
	Bromide	0.535	990'0	0.20	NE			078676-016	SW846-9056	
CYN-MW7	Chloride	39.0	99.0	2.0	NE	В		078676-016	SW846-9056	
13-Jun-06	Fluoride	1.26	0.033	0.10	4	В		078676-016	SW846-9056	
	Sulfate	71.5	1.0	4.0	NE	В		078676-016	SW846-9056	
	Bromide	0.748	0.066	0.20	NE			078678-016	SW846-9056	
CYN-MW8	Chloride	80.2	0.66	2.0	NE	В		078678-016	SW846-9056	
14-Jun-06	Fluoride	1.35	0.033	0.10	4	В		078678-016	SW846-9056	
	Sulfate	117	1.0	4.0	N	В		078678-016	SW846-9056	
Refer to footnotes on page 25.										

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# Table BSG F-7 Summary of Total Metal Results Burn Site Groundwater Monitoring

### Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Aluminum	0.0164	0.005	0.015	N.	В	В, Ј	078684-009	SW846 3005
	Antimony	QN	0.0005	0.002	900.0	n		078684-009	SW846 3005
	Arsenic	QN	0.0015	0.005	0.01	ח		078684-009	SW846 3005
	Barium	0.0172	0.0005	0.002	2			078684-009	SW846 3005
	Beryllium	QN	0.0001	0.0005	0.004	ח		078684-009	SW846 3005
	Cadmium	QN	0.0001	0.001	0.005	ס		078684-009	SW846 3005
	Calcium	34.0	0.02	0.1	빌	В		078684-009	SW846 3005
	Chromium	QN	0.001	0.003	0.1	ס		078684-009	SW846 3005
	Cobalt	0.000267	0.0001	0.001	빌	7		078684-009	SW846 3005
	Copper	0.000662	0.0002	0.001	₩.	7		078684-009	SW846 3005
	Iron	3.06	0.01	0.025	NE			078684-009	SW846 3005
CYN-MW1D	Lead	QN	0.0005	0.002	₩.	ח		078684-009	SW846 3005
21-Jun-06	Magnesium	12.1	0.005	0.015	IJ.			078684-009	SW846 3005
	Manganese	0.0448	0.001	0.005	₩.			078684-009	SW846 3005
	Mercury	QN	0.00006	0.0002	0.002	ס	B3, UJ	078684-009	SW846 7470
	Nickel	0.00134	0.0005	0.002	₩.	٦		078684-009	SW846 3005
	Potassium	2.72	0.08	0.3	빌			078684-009	SW846 3005
	Selenium	QN	0.0025	0.005	0.05	n		078684-009	SW846 3005
	Silver	QN	0.0002	0.001	N N	n		078684-009	SW846 3005
	Sodium	28.7	0.08	0.25	IJ.			078684-009	SW846 3005
	Thallium	QN	0.0004	0.001	0.002	ח		078684-009	SW846 3005
	Uranium	0.000053	0.00005	0.0002	0.03	ſ		078684-009	SW846 3005
	Vanadium	QN	0.002	0.03	N N	n		078684-009	SW846 3005
	Zinc	0.00312	0.002	0.01	빌	В, Ј	В, Ј	078684-009	SW846 3005

# Table CYN F-7 Summary of Total Metal Results Burn Site Groundwater Monitoring

### Fiscal Year 2006

Aluminum         0.00751         0           Antimony         ND         0           Arsenic         ND         0           Barium         0.0585         0           Baryllium         ND         0           Cadmium         ND         0           Calcium         ND         0           Cabalt         ND         0           Cobalt         0.000337         0           Iron         0.502         0           CVN-MW3         Lead         ND         0           Manganesium         38.0         0           Mercury         ND         0           Nickel         0.00348         0           Nickel         0.00843         0           Selenium         40.6         0           Sodium         40.6         0           Thallium         ND         0	0.00751 0.005 ND 0.0005 ND 0.00015 0.0585 0.0005 ND 0.0001 135 0.1	0.015 0.002 0.005 0.002 0.0005	NE				
Antimony         ND           Arsenic         ND           Barium         0.0585           Beryllium         ND           Cadmium         ND           Calcium         ND           Chromium         ND           Cobalt         0.000337           Copper         0.00172           Iron         0.00172           Iron         ND           Magnesium         38.0           Mercury         ND           Nickel         0.00348           Potassium         1.98           Selenium         0.00843           Silver         ND           Thallium         ND		0.002 0.005 0.002 0.0005	9000	7		078682-009	SW846 3005
Arsenic         ND           Barium         0.0585           Beryllium         ND           Cadmium         ND           Calcium         135           Chromium         ND           Cobalt         0.000337           Copper         0.000337           Iron         0.00172           Iron         ND           Magnesium         ND           Nickel         1.98           Potassium         1.98           Selenium         0.00843           Silver         ND           Thallium         ND		0.005	0.000	ם	B3, UJ	078682-009	SW846 3005
Barium         0.0585           Beryllium         ND           Cadmium         ND           Calcium         135           Chromium         ND           Cobalt         0.000337           Copper         0.00172           Iron         0.502           Lead         ND           Mangnesium         38.0           Mercury         ND           Nickel         0.00348           Potassium         1.98           Selenium         0.00843           Silver         ND           Thallium         ND		0.002	0.01	)		078682-009	SW846 3005
Beryllium         ND           Cadmium         ND           Calcium         135           Chromium         ND           Cobalt         0.000337           Copper         0.00172           Iron         0.502           Lead         ND           Magnesium         38.0           Mercury         ND           Nickel         0.00348           Potassium         1.98           Selenium         0.00843           Silver         ND           Thallium         ND		0.0005	2			078682-009	SW846 3005
Cadmium         ND           Calcium         135           Chromium         ND           Cobalt         0.000337           Copper         0.00172           Iron         0.502           Lead         ND           Magnesium         38.0           Mercury         ND           Nickel         0.00348           Potassium         1.98           Selenium         0.00843           Silver         ND           Sodium         40.6           Thallium         ND			0.004	)		078682-009	SW846 3005
Calcium         135           Chromium         ND           Cobalt         0.000337           Copper         0.00172           Iron         0.502           Lead         ND           Magnesium         38.0           Mercury         ND           Nickel         0.00348           Potassium         1.98           Selenium         0.00843           Silver         ND           Sodium         40.6           Thallium         ND		0.001	0.005	Э		078682-009	SW846 3005
Chromium         ND           Cobalt         0.000337           Copper         0.00172           Iron         0.502           Lead         ND           Manganesium         ND           Mercury         ND           Nickel         0.00348           Potassium         1.98           Selenium         0.00843           Silver         ND           Thallium         ND		0.5	IJ Z	В		078682-009	SW846 3005
Cobalt         0.000337           Copper         0.00172           Iron         0.502           Lead         ND           Manganese         ND           Mercury         ND           Nickel         0.00348           Potassium         1.98           Selenium         0.00843           Silver         ND           Thallium         ND		0.003	0.1	n		078682-009	SW846 3005
Copper         0.00172           Iron         0.502           Lead         ND           Manganese         ND           Mercury         ND           Nickel         0.00348           Potassium         1.98           Selenium         0.00843           Silver         ND           Sodium         40.6           Thallium         ND	0.000337 0.0001	0.001	IJ N	7		078682-009	SW846 3005
Iron         0.502           Lead         ND           Magnesium         38.0           Manganese         ND           Mercury         ND           Nickel         0.00348           Potassium         1.98           Selenium         0.00843           Silver         ND           Sodium         40.6           Thallium         ND	0.00172 0.0002	0.001	IJ Z			078682-009	SW846 3005
Lead         ND           Magnesium         38.0           Manganese         ND           Mercury         ND           Nickel         1.98           Potassium         1.98           Selenium         0.00843           Silver         ND           Sodium         40.6           Thallium         ND	0.502 0.01	0.025	IJ Z			078682-009	SW846 3005
Magnesium38.0ManganeseNDMercuryNDNickel0.00348Potassium1.98Selenium0.00843SilverNDSodium40.6ThalliumND	ND 0.0005	0.002	IJ Z	n		078682-009	SW846 3005
ry ND ry ND ry ND ry ND ry 0.00348 sium 1.98 um 0.00843 m A0.6	38.0 0.005	0.015	IJ Z			078682-009	SW846 3005
ry ND 0.00348 1.98 um 0.00843 ND	ND 0.001	0.005	IJ N	n		078682-009	SW846 3005
sium 1.98 um 0.00843 nm 0.00843 n 40.6	900000 ON	0.0002	0.002	n		078682-009	SW846 7470
sium 1.98  um 0.00843  ND  n 40.6	0.00348 0.0005	0.002	NE			078682-009	SW846 3005
n 0.00843 ND ND n 40.6	1.98 0.08	0.3	IJ.			078682-009	SW846 3005
n 40.6 m ND	0.00843 0.0025	0.005	0.05			078682-009	SW846 3005
40.6 ND	ND 0.0002	0.001	NE	n		078682-009	SW846 3005
QN	40.6 0.08	0.25	N N			078682-009	SW846 3005
	ND 0.0004	0.001	0.002	n		078682-009	SW846 3005
Uranium 0.00704 0.	0.00704 0.00005	0.0002	0.03			078682-009	SW846 3005
Vanadium 0.00303 (	0.00303 0.002	0.03	NE	٦		078682-009	SW846 3005
Zinc 0.00417 (	0.00417 0.002	0.01	IJN.	В, Ј	В, Ј	078682-009	SW846 3005

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Table BSG F-7
Summary of Total Metal Results
Burn Site Groundwater Monitoring

Fiscal Year 2006

Aluminum         0.010         0.005         0.015         NB         J         MS-BLO-009         SW446 3005           Autininum         ND         0.005         0.002         0.004         0.004         0.009         0.004         0.009         0.004         0.009         0.004         0.009         0.004         0.009         0.004         0.009         0.004         0.009         0.004         0.009         0.004         0.009         0.004         0.009         0.004         0.009         0.004	Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
Antimony         ND         0,0005         0,005         0,006         U         B3, UJ         078680-009           Arsenic         ND         0,0015         0,005         0,001         U         0,016800-009           Barlum         0,0602         0,0005         0,0005         0,0005         0,000         U         0,78680-009           Beryllim         ND         0,0001         0,0005         0,00         U         0,78680-009           Calclum         ND         0,0001         0,0005         U         0,78680-009         0           Calclum         ND         0,0001         0,0001         0,0005         U         0,78680-009           Calclum         ND         0,0001         0,0001         0,0001         0,001         U         0,78680-009           Capper         0,000281         0,0001         0,0001         NE         J         0,78680-009           Copel         ND         0,0002         0,001         NE         J         0,78680-009           Magnesium         31.8         0,005         0,002         NE         J         0,78680-009           Marcuty         ND         0,0005         0,005         NE         J		Aluminum	0.010	0.005	0.015	NE	٦		078680-009	SW846 3005
Arsenic         ND         0.0015         0.005         2         D         078680-009           Barlum         0.0662         0.0005         0.0005         0.0004         0.004         0		Antimony	ND	0.0005	0.002	900.0	n	B3, UJ	078680-009	SW846 3005
Barlum         0.0602         0.0005         0.004         2         0		Arsenic	ND	0.0015	0.005	0.01	n		078680-009	SW846 3005
Beryllium         ND         0,0001         0,0005         0,004         U         078680-009           Cadmium         ND         0,0001         0,0001         0,0005         U         0,78680-009           Cadium         73.2         0.1         0,5         NE         B         0,78680-009           Chromium         ND         0,0001         0,0001         0,0001         0,000         0,000         0,78680-009           Chobalt         0,000283         0,0001         0,0001         NE         J         0,78680-009           Cobalt         0,000289         0,0002         0,001         NE         J         0,78680-009           Iron         ND         0,0005         0,002         NE         J         0,78680-009           Magnesium         31.8         0,005         0,002         NE         J         0,78680-009           Margnesium         31.8         0,005         0,005         NE         J         0,78680-009           Margnesium         31.8         0,0005         0,0005         0,0005         0,0005         NE         J         0,78680-009           Mercury         ND         0,0005         0,0005         0,0005         0,000 </td <td></td> <td>Barium</td> <td>0.0602</td> <td>0.0005</td> <td>0.002</td> <td>2</td> <td></td> <td></td> <td>078680-009</td> <td>SW846 3005</td>		Barium	0.0602	0.0005	0.002	2			078680-009	SW846 3005
Cadrium         ND         0,0001         0,001         0,005         U         0,7869-09           Calcium         73.2         0.1         0.5         NE         B         0,7868-09           Calcium         ND         0.001         0.003         0.1         U         0,7868-09           Chromium         ND         0.000283         0.0001         0.001         0.001         0,7868-009           Copper         0.000290         0.0002         0.001         0.002         NE         J         0,7868-009           Iron         0.265         0.001         0.005         0.005         0.015         NE         J         0,7868-009           Magnesium         31.8         0.005         0.015         NE         J         0,7868-009           Marganese         0.00296         0.001         0.005         NE         J         0,7868-009           Marganesium         31.8         0.0006         0.0002         NE         J         0,7868-009           Mercury         ND         0.0006         0.0002         0.002         NE         J         0,7868-009           Selenium         0.0105         0.002         0.002         0.00         0.00		Beryllium	QN	0.0001	0.0005	0.004	n		078680-009	SW846 3005
Calcium         73.2         0.1         0.5         NE         B         078680-009           Chromium         ND         0.001         0.003         0.1         U         0.78680-009           Chromium         ND         0.0001         0.001         NB         J         0.78680-009           Cobalt         0.000283         0.0001         0.001         0.001         0.001         D           Iron         0.265         0.0002         0.001         0.002         NB         J         0.78680-009           Iron         0.265         0.001         0.005         0.002         NB         J         0.78680-009           Magnesium         31.8         0.005         0.005         NB         J         J         0.78680-009           Marganese         0.0025         0.001         0.005         NB         J         J         0.78680-009           Nickel         0.0019         0.0005         0.002         0.002         0.005         D         O         0.78680-009           Soliver         ND         0.0005         0.005         0.005         0.005         0.005         D         O         0.78680-009           Soldium         N		Cadmium	ND	0.0001	0.001	900'0	n		078680-009	SW846 3005
Chromium         ND         0.001         0.003         0.1         U         078680-009           Cobalt         0.000283         0.0001         0.001         NB         J         0.78680-009           Copper         0.000299         0.0002         0.001         0.001         NB         J         0.78680-009           Iron         0.266         0.01         0.002         NB         J         0.78680-009           Iron         0.266         0.01         0.002         NB         J         0.78680-009           Magnesium         31.8         0.005         0.015         NB         J         0.78680-009           Marganese         0.00295         0.007         0.002         0.002         0.002         0.002         0.002           Marcury         ND         0.0005         0.002		Calcium	73.2	0.1	0.5	ЭN	В		078680-009	SW846 3005
Cobalt         0.000283         0.0001         0.001         NE         J         0.78680-009           Copper         0.000929         0.0002         0.001         NE         J         0.78680-009           Iron         0.265         0.01         0.025         NE         J         0.78680-009           Iron         0.265         0.01         0.025         NE         J         0.78680-009           Lead         ND         0.005         0.015         NE         J         0.78680-009           Magnesium         31.8         0.005         0.015         NE         J         0.78680-009           Marcury         ND         0.0006         0.005         NE         J         0.78680-009           Nickel         0.0019         0.0005         0.002         NE         J         0.78680-009           Nickel         0.0019         0.0005         0.002         NE         J         0.78680-009           Nickel         0.0010         0.0005         0.002         0.005         0.005         0.00         0.005           Selenium         0.0105         0.005         0.005         0.005         0.005         0.00         0.005		Chromium	ND	0.001	0.003	0.1	n		078680-009	SW846 3005
Copper         0.000929         0.0002         0.001         NE         J         O78680-009           Iron         0.265         0.01         0.025         NE         J         0.78680-009           Iron         0.265         0.01         0.005         NE         J         0.78680-009           Magnesium         31.8         0.005         0.015         NE         J         0.78680-009           Marganese         0.00295         0.001         0.005         0.005         NE         J         0.78680-009           Mercury         ND         0.0006         0.0002         0.002         0.00         O78680-009         0.78680-009           Nickel         0.0019         0.0005         0.002         NE         J         0.78680-009           Nickel         0.0019         0.0005         0.002         NE         J         0.78680-009           Selenium         0.0105         0.002         0.005         0.005         0.005         0.00         0.005         0.005         0.00         0.005         0.005         0.00         0.005         0.005         0.00         0.005         0.00         0.005         0.00         0.005         0.00         0.00		Cobalt	0.000283	0.0001	0.001	ЭN	ſ		078680-009	SW846 3005
Iron         0.265         0.01         0.025         NE         U         078680-009           Lead         ND         0.0005         0.015         NE         U         0.78680-009           Magnesium         31.8         0.005         0.015         NE         J         0.78680-009           Marganese         0.00295         0.001         0.005         0.002         0.002         U         0.78680-009           Mercury         ND         0.0006         0.0002         0.002         U         0.78680-009           Nickel         0.0019         0.0005         0.002         NE         J         0.78680-009           Potassium         5.92         0.08         0.08         0.05         NE         J         0.78680-009           Silver         ND         0.0025         0.005         0.05         NE         U         0.78680-009           Sodium         45.7         0.08         0.25         NE         N         0.78680-009           Vanadium         ND         0.0004         0.001         0.002         0.03         N         0.78680-009           Vanadium         ND         0.0002         0.03         N         N <td< td=""><td></td><td>Copper</td><td>0.000929</td><td>0.0002</td><td>0.001</td><td>NE</td><td>ſ</td><td></td><td>078680-009</td><td>SW846 3005</td></td<>		Copper	0.000929	0.0002	0.001	NE	ſ		078680-009	SW846 3005
Lead         ND         0.0005         0.005         0.015         NE         U         J         0.78680-009           Magnesium         31.8         0.005         0.015         NE         J         0.78680-009           Manganese         0.00295         0.001         0.0005         0.0002         0.002         0.002         0.002           Mercury         ND         0.0006         0.0002         0.002         0.002         0.002         0.002           Nickel         0.0019         0.0005         0.002 <td></td> <td>Iron</td> <td>0.265</td> <td>0.01</td> <td>0.025</td> <td>NE</td> <td></td> <td></td> <td>078680-009</td> <td>SW846 3005</td>		Iron	0.265	0.01	0.025	NE			078680-009	SW846 3005
Magnesium         31.8         0.005         0.015         NE         J         0.78680-009           Manganese         0.00295         0.001         0.0005         NE         J         0.78680-009           Mercury         ND         0.0006         0.0002         0.002         NE         J         0.78680-009           Nickel         0.0019         0.0005         0.002         NE         J         0.78680-009           Nickel         0.0015         0.002         0.005         NE         J         0.78680-009           Selenium         0.0105         0.0025         0.005         0.005         NE         D         0.78680-009           Silver         ND         0.0002         0.001         NE         D         0.78680-009           Sodium         A5.7         0.08         0.25         NE         D         0.78680-009           Uranilum         ND         0.0004         0.0004         0.0002         0.03         D         0.78680-009           Vanadium         ND         0.0005         0.03         NE         U         0.78680-009           Zinc         0.0113         0.0013         0.01         NE         D         0.78680-00	CYN-MW4	Lead	ND	0.0005	0.002	NE	n		078680-009	SW846 3005
Manganese         0.00295         0.001         0.005         NE         J         078680-009           Mercury         ND         0.00006         0.0002         0.002         U         078680-009           Nickel         0.0019         0.0005         0.002         NE         J         078680-009           Potassium         5.92         0.08         0.3         NE         J         078680-009           Selenium         0.0105         0.0025         0.005         0.005         0.005         O         078680-009           Silver         ND         0.0002         0.001         NE         U         078680-009         078680-009           Sodium         45.7         0.08         0.25         NE         U         078680-009         078680-009           Uranium         0.0129         0.00005         0.001         0.03         NE         U         078680-009           Vanadium         ND         0.002         0.03         NE         U         078680-009           Vanadium         ND         0.002         0.03         NE         D         078680-009           Vanadium         ND         0.002         0.03         NE         D	19-Jun-06	Magnesium	31.8	0.005	0.015	NE		J	078680-009	SW846 3005
Mercury         ND         0.00006         0.0002         NE         J         O78680-009           Nickel         0.0019         0.0005         0.002         NE         J         0.78680-009           Potassium         5.92         0.08         0.3         NE         N         0.78680-009           Selenium         0.0105         0.0025         0.005         0.05         N         0.78680-009           Sodium         45.7         0.08         0.25         NE         U         0.78680-009           Thallium         ND         0.0004         0.001         0.002         0.002         0.03         N           Vanadium         ND         0.0005         0.003         NE         U         0.78680-009           Vanadium         ND         0.002         0.03         NE         D         0.78680-009           Vanadium         ND         0.002         0.03         NE         N         0.78680-009		Manganese	0.00295	0.001	0.005	NE	٦		078680-009	SW846 3005
Nickel         0.0019         0.0005         0.002         NE         J         O78680-009           Potassium         5.92         0.08         0.03         NE         N         0.78680-009           Selenium         0.0105         0.0025         0.005         0.005         0.005         0.005         0.005           Sodium         45.7         0.08         0.25         NE         0         0.78680-009           Thallium         ND         0.0004         0.001         0.002         0         0         0.78680-009           Vanadium         ND         0.0005         0.0002         0.03         NE         N         0.78680-009           Vanadium         ND         0.002         0.03         NE         B         B         J		Mercury	ND	90000'0	0.0002	0.002	n		078680-009	SW846 7470
Potassium         5.92         0.08         0.3         NE         O.05         O.05880-009           Selenium         0.0105         0.0025         0.005         0.05         N         O.78680-009         O.78680-009           Silver         ND         0.0002         0.001         NE         U         0.78680-009         O.78680-009           Thallium         ND         0.0004         0.001         0.002         U         0.78680-009         O.78680-009           Vanadium         ND         0.0005         0.002         0.03         N         U         0.78680-009           Vanadium         ND         0.002         0.03         N         B         B, J         0.78680-009		Nickel	0.0019	0.0005	0.002	ЭN	ſ		078680-009	SW846 3005
Selenium         0.0105         0.0055         0.005         0.05         0.05         0.05         0.05         0.05         0.005         0.001         NE         U         0.78680-009		Potassium	5.92	0.08	0.3	ЭN			078680-009	SW846 3005
Silver         ND         0.0002         0.001         NE         U         078680-009           Sodium         45.7         0.08         0.25         NE         0         0.78680-009           Thallium         ND         0.0004         0.001         0.002         U         0.78680-009           Vanadium         ND         0.002         0.03         NE         U         0.78680-009           Vanadium         ND         0.002         0.01         NE         B         B, J         0.78680-009		Selenium	0.0105	0.0025	0.005	90.0			078680-009	SW846 3005
Sodium         45.7         0.08         0.25         NE         NE         0.78680-009         0.78680-009           Thallium         ND         0.0004         0.001         0.002         0.03         N         0.78680-009         0.78680-009           Vanadium         ND         0.002         0.03         NE         U         0.78680-009         0.78680-009           Zinc         0.013         NE         B         B, J         0.78680-009         0.78680-009		Silver	ND	0.0002	0.001	ЭN	n		078680-009	SW846 3005
Thallium         ND         0.0004         0.001         0.002         U         0.002         U         0.08880-009         0.08880-009         0.002         0.003         NE         U         0.78680-009         0.002         0.003         NE		Sodium	45.7	0.08	0.25	NE			078680-009	SW846 3005
Uranium         0.0129         0.00005         0.0002         0.03         NE         U         0.78680-009         3           Vanadium         ND         0.002         0.03         NE         U         B, J         078680-009         3           Zinc         0.0113         0.002         0.01         NE         B, J         078680-009         3		Thallium	ND	0.0004	0.001	0.002	n		078680-009	SW846 3005
Vanadium         ND         0.002         0.03         NE         U         0.78680-009           Zinc         0.0113         0.002         0.01         NE         B         B, J         0.78680-009		Uranium	0.0129	0.00005	0.0002	0.03			078680-009	SW846 3005
Zinc 0.013 0.002 0.01 NE B B,J 078680-009		Vanadium	ND	0.002	0.03	NE	n		078680-009	SW846 3005
			0.0113	0.002	0.01	NE	В	В, Ј	078680-009	SW846 3005

Table BSG F-7
Summary of Total Metal Results
Burn Site Groundwater Monitoring

### Fiscal Year 2006

Aluminum         0.284         0.005         0.015         NE         B         0.78867-009         SWM46 3005           Artimony         ND         0.0005         0.005         0.006         U         0.008         SWM46 3005           Artimony         ND         0.0015         0.002         2         Q         0         0.0887-009         SWM46 3005           Arsimon         0.00783         0.0005         0.004         U         Q         0.0887-009         SWM46 3005           Baryllum         ND         0.0001         0.0001         0.0005         0.004         U         0.0887-009         SWM46 3005           Cadmium         ND         0.0001         0.0001         0.0005         0.004         U         0.0887-009         SWM46 3005           Cabit         0.0001         0.0001         0.001         0.001         0.005         0.005         0.005         0.005         0.005         0.005         0.006	Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL <sup>d</sup> (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
rony         ND         0.0005         0.005         0.006         U         0.78687-009           nic         ND         0.0015         0.005         0.01         0.01         0.78687-009           nic         ND         0.0015         0.005         0.01         0.004         0.00		Aluminum	0.284	0.005	0.015	JN.	В		078687-009	SW846 3005
nic         ND         0.0015         0.005         0.01         U         0.0887-009           lium         0.0763         0.0005         0.002         2         0         0.78687-009           lium         ND         0.0001         0.0005         0.004         U         0.78687-009           nium         169         0.0001         0.0001         0.0001         0.005         0.00         0.78687-009           nium         169         0.0001         0.001         0.001         0.005         0.0         0.78687-009           nium         ND         0.00076         0.0001         NE         J         0.78687-009         0.78687-009           eer         0.000766         0.0001         0.001         NE         J         0.78687-009         0.78687-009           eer         0.000346         0.0002         0.001         NE         J         0.78687-009         0.78687-009           eer         0.000346         0.001         0.002         NE         J         0.78687-009         0.78687-009           eer         0.000477         0.0005         0.002         NE         J         0.78687-009           sulum         ND         0.0005		Antimony	QN	0.0005	0.002	900'0	n		600-289820	SW846 3005
mm         0.0763         0.0005         2         0         0         078687-009           lium         ND         0.0001         0.0005         0.004         U         0.78687-009         0           nium         ND         0.0001         0.0001         0.0005         0.005         U         0         0.78687-009           um         169         0.1         0.001         0.001         0.003         0.01         U         0         0.78687-009         0           mium         ND         0.0001         0.0001         0.0001         0.001         NE         B         D         0.78687-009         0           int         0.000546         0.0002         0.0002         0.002         NE         D         0         0.78687-009         0		Arsenic	ND	0.0015	0.005	0.01	n		078687-009	SW846 3005
lium         ND         0.0001         0.0005         0.004         U         078687-009           nium         ND         0.0001         0.001         0.0005         U         0         078687-009           um         169         0.1         0.5         NE         B         0         078687-009           mium         ND         0.0001         0.001         0.003         0.01         0.0         0.0           it         0.000766         0.0001         0.001         NE         J         0.78687-009           it         0.000566         0.0002         0.001         NE         J         0.78687-009           resium         41.6         0.005         0.001         NE         B         J         0.78687-009           usy         ND         0.005         0.005         NE         B         J         0.78687-009           silum         ND         0.0005         0.001         NE         B         J         0.78687-009           silum         0.00417         0.0005         0.002         0.002         NE         D         0.78687-009           silum         0.0079         0.002         0.002         0.002		Barium	0.0763	0.0005	0.002	2			078687-009	SW846 3005
nium         ND         0.0001         0.001         0.005         U         076887-009           um         169         0.1         0.5         NE         B         0.78887-009           mium         ND         0.001         0.003         0.1         U         0         0.78887-009           er         0.000766         0.0001         0.001         NE         J         0         0.78887-009           er         0.00346         0.0002         0.001         NE         J         0         0.78887-009           er         0.00346         0.0002         0.001         NE         J         0         0.78887-009           r         0.00635         0.0005         0.002         NE         B         J         0.78887-009           sesium         0.0546         0.001         0.005         NE         B         J         0.78887-009           silm         0.0047         0.0005         0.002         0.002         0.002         NE         D         0.78887-009           rium         ND         0.0005         0.003         0.02         NE         N         0.78887-009           rium         ND         0.0002 <t< td=""><td></td><td>Beryllium</td><td>ND</td><td>0.0001</td><td>0.0005</td><td>0.004</td><td>n</td><td></td><td>078687-009</td><td>SW846 3005</td></t<>		Beryllium	ND	0.0001	0.0005	0.004	n		078687-009	SW846 3005
um         169         0.1         0.5         NE         B         078687-009           mium         ND         0.001         0.003         0.1         U         0.76887-009           litt         0.000766         0.0001         0.001         0.001         NE         J         0.78887-009           ler         0.000346         0.0002         0.001         NE         J         0.78887-009           ler         0.000535         0.0005         0.0015         NE         J         0.78887-009           sesium         41.6         0.005         0.005         NE         B         J         0.78887-009           ury         0.00546         0.0005         0.005         NE         B         J         0.78887-009           ury         0.00447         0.0005         0.0002         0.0003         0.0003         0.0003		Cadmium	QN	0.0001	0.001	0.005	n		078687-009	SW846 3005
milum         ND         0.001         0.003         0.1         U         0.78687-009           lift         0.000766         0.0001         0.001         NE         J         0.78687-009           ler         0.000346         0.0002         0.001         NE         J         0.78687-009           lesium         4.1.6         0.005         0.005         0.015         NE         B         J         0.78687-009           usy         0.00546         0.001         0.005         NE         B         J         0.78687-009           ury         ND         0.0006         0.005         NE         B         J         0.78687-009           situm         2.35         0.006         0.0002         0.002         U         B3, U         0.78687-009           situm         0.00417         0.0065         0.005         NE         N         0.78687-009           indm         0.0079         0.006         0.005         0.06         0.06         0.06         0.06           indm         ND         0.0065         0.005         0.06         0.0         0.0         0.0         0.06           inm         0.015         0.006         0		Calcium	169	0.1	0.5	빙	В		078687-009	SW846 3005
let         0.000766         0.0001         0.001         NE         J         O         0.0887-009           let         0.00346         0.0002         0.001         NE         J         0.0887-009         0.0887-009           let         0.000535         0.0005         0.005         NE         J         0.78887-009         0.78887-009           lesium         41.6         0.005         0.005         0.005         0.005         NE         B         J         0.78887-009         0.78887-009           ury         A1.6         0.000         0.005         0.005         0.005         NE         B         J         0.78887-009         0.78887-009           ury         ND         0.0005         0.0005         0.0005         0.0005         NE         B3, UJ         0.78887-009         0.78887-009           ur         0.00417         0.0005         0.005         0.005         0.005         NE         N         0.78887-009         0.78887-009           ur         0.0079         0.0085         0.0065         0.007         0.007         0.007         0.008         0.00         0.00         0.008         0.008         0.008         0.008         0.008         0.008 <td></td> <td>Chromium</td> <td>ND</td> <td>0.001</td> <td>0.003</td> <td>0.1</td> <td>n</td> <td></td> <td>078687-009</td> <td>SW846 3005</td>		Chromium	ND	0.001	0.003	0.1	n		078687-009	SW846 3005
err         0.00346         0.0002         0.001         NE         P         0.0887-009           resium         1.04         0.01         0.025         NE         J         0.78687-009           panese         0.000535         0.0005         0.015         NE         B         J         0.78687-009           panese         0.0546         0.001         0.005         0.005         NE         B         J         0.78687-009           uvy         ND         0.0006         0.0002         0.002         0.002         U         B3, UJ         0.78687-009           sil         0.00417         0.0005         0.002         0.002         U         B3, UJ         0.78687-009           sil         0.00417         0.0005         0.002         NE         N         0.78687-009           inium         0.0079         0.0025         0.005         0.05         N         N         0.78687-009           inium         ND         0.0002         0.001         0.002         0.03         B         0         0.78687-009           inium         ND         0.0005         0.0002         0.03         B         D         0.78687-009           inium		Cobalt	0.000766	0.0001	0.001	ЭN	٦		600-289820	SW846 3005
nesium         1.04         0.01         0.025         NE         J         07887-009           nesium         41.6         0.00053         0.005         0.015         NE         B         J         07887-009           panese         0.0546         0.001         0.005         0.005         0.005         NB         B3, UJ         07887-009           panese         0.0546         0.001         0.005		Copper	0.00346	0.0002	0.001	빙			078687-009	SW846 3005
esium         41.6         0.00635         0.0015         NE         B         J         078687-009           ganese         0.0546         0.001         0.005         0.005         NE         B3, UJ         078687-009           ury         ND         0.00047         0.0002         0.002         0.002         U         B3, UJ         078687-009           sium         2.35         0.006         0.002         0.002         0.05         U         078687-009           r         0.00417         0.0005         0.002         0.05         D         0.08         0.05         O         0.05         D         078687-009         0.08         0.065         0.05         D         0.08         0.065         0.05         D         0.08         0.08         0.05         D         0.08         0.08         0.00 <td></td> <td>Iron</td> <td>1.04</td> <td>0.01</td> <td>0.025</td> <td>JN.</td> <td></td> <td></td> <td>078687-009</td> <td>SW846 3005</td>		Iron	1.04	0.01	0.025	JN.			078687-009	SW846 3005
nesium         41.6         0.005         0.015         NE         B         J         078687-009           ganese         0.0546         0.001         0.005         NE         D         0.0887-009         0.78687-009           ulry         ND         0.0006         0.0002         0.002         NE         D         0.78687-009           sium         2.35         0.08         0.005         0.005         0.005         0.005         0.005           r         ND         0.0002         0.005         0.00	CYN-MW6	Lead	0.000535	0.0005	0.002	빙	7		078687-009	SW846 3005
ganese         0.0546         0.001         0.005         NE         N         PS, UJ         078687-009           ury         ND         0.00006         0.0002         0.002         NE         N         078687-009         078687-009           ssium         2.35         0.08         0.03         NE         N         078687-009         078687-009           nium         0.0079         0.0025         0.005         0.05         N         0         078687-009         078687-009           nm         37.8         0.08         0.25         NE         N         078687-009         078687-009           lum         ND         0.0004         0.001         0.002         0.03         B         078687-009           dium         ND         0.0005         0.0002         0.03         B         078687-009           dium         ND         0.0005         0.03         NE         D         078687-009           dium         ND         0.002         0.03         NE         D         078687-009           dium         ND         0.002         0.03         NE         D         078687-009           dium         ND         0.002 <td< td=""><td>22-Jun-06</td><td>Magnesium</td><td>41.6</td><td>0.005</td><td>0.015</td><td>NE.</td><td>В</td><td>٦</td><td>078687-009</td><td>SW846 3005</td></td<>	22-Jun-06	Magnesium	41.6	0.005	0.015	NE.	В	٦	078687-009	SW846 3005
ury         ND         0.00006         0.0002         0.002         U         B3, UJ         078687-009           ssium         2.35         0.08         0.002         NE         N         078687-009           r         0.0079         0.0025         0.005         0.06         NE         N         078687-009           r         ND         0.0002         0.001         NE         U         078687-009           um         37.8         0.08         0.25         NE         U         078687-009           lum         ND         0.0004         0.001         0.002         0.03         B         078687-009           dium         ND         0.0005         0.0002         0.03         B         078687-009           dium         ND         0.002         0.03         NE         U         078687-009           dium         ND         0.002         0.03         NE         U         078687-009           dium         ND         0.002         0.03         NE         U         078687-009		Manganese	0.0546	0.001	0.005	빙			078687-009	SW846 3005
el         0.00417         0.0005         0.002         NE         P         0.78687-009         R           ssium         2.35         0.08         0.3         NE         0.05         0.78687-009         0.78687-009           r         ND         0.0025         0.005         0.005         0.00         0.00         0.78687-009           um         ND         0.008         0.25         NE         N         0.78687-009           lum         ND         0.0004         0.001         0.002         0         0         0.78687-009           lum         ND         0.0005         0.0002         0.03         B         0.78687-009         0           dium         ND         0.0005         0.002         0.03         B         0.78687-009         0           dium         ND         0.002         0.03         NE         U         0.78687-009         0           dium         ND         0.002         0.03         NE         U         0.78687-009         0           dium         ND         0.002         0.03         NE         D         0.78687-009         0		Mercury	QN	0.00006	0.0002	0.002	n	B3, UJ	078687-009	SW846 7470
ssium         2.35         0.08         0.3         NE         NE         0.0587-009           r         ND         0.0025         0.005         0.065         0.05         0.05         0.05         0.08         0.0887-009         0.0887-009           lum         ND         0.0004         0.001         0.002         U         0.0887-009         0.0887-009           lum         ND         0.0005         0.0002         0.03         B         0.78687-009         0.78687-009           dium         ND         0.002         0.03         NE         U         0.78687-009         0.78687-009           dium         ND         0.002         0.03         NE         U         0.78687-009           dium         ND         0.002         0.03         NE         N         0.78687-009		Nickel	0.00417	0.0005	0.002	JN			078687-009	SW846 3005
rium         0.0079         0.0025         0.005         0.005         0.005         0.001         NE         U         0.78687-009         78687-009           um         37.8         0.08         0.25         NE         U         0.78687-009         0.78687-009           lum         ND         0.0004         0.001         0.002         U         0.78687-009         0.78687-009           dium         ND         0.002         0.03         B         0.78687-009         0.78687-009           dium         ND         0.002         0.03         NE         B         0.78687-009           dium         0.0146         0.002         0.01         NE         B         0.78687-009		Potassium	2.35	0.08	0.3	JN			078687-009	SW846 3005
r         ND         0.0002         0.001         NE         U         0.78687-009         0.78687-009           lum         37.8         0.08         0.25         NE         0         0.78687-009         0.78687-009           lum         ND         0.0004         0.0002         0.03         B         0.78687-009         0.78687-009           dium         ND         0.002         0.03         NE         U         0.78687-009         0.78687-009           dium         0.0146         0.002         0.01         NE         B         0.78687-009		Selenium	0.0079	0.0025	0.005	0.05			078687-009	SW846 3005
Jum         37.8         0.08         0.25         NE         NE         0.78687-009           lum         ND         0.0004         0.001         0.002         U         0.78687-009           lum         0.015         0.0005         0.003         B         0.78687-009           dium         ND         0.002         0.03         NE         U         0.78687-009           dium         0.0146         0.002         0.01         NE         B         0.78687-009		Silver	ND	0.0002	0.001	JN	n		078687-009	SW846 3005
ium         ND         0.0004         0.001         0.002         U         0.0887-009         0.78687-009           ium         0.0115         0.00005         0.0002         0.03         B         0.78687-009         0.78687-009           dium         ND         0.002         0.01         NE         B         0.78687-009           0.0146         0.002         0.01         NE         B         0.78687-009		Sodium	37.8	0.08	0.25	JN.			018687-009	SW846 3005
lulm         0.0115         0.00005         0.0002         0.03         B         0.78687-009           dium         ND         0.002         0.03         NE         U         0.78687-009           0.0146         0.002         0.01         NE         B         0.78687-009		Thallium	ND	0.0004	0.001	0.002	n		078687-009	SW846 3005
dium         ND         0.002         0.03         NE         U         0.78687-009           0.0146         0.002         0.01         NE         B         0.78687-009		Uranium	0.0115	0.00005	0.0002	0.03	В		078687-009	SW846 3005
0.0146 0.002 0.01 NE B 0.78687-009		Vanadium	ND	0.002	0.03	NE.	n		078687-009	SW846 3005
		Zinc	0.0146	0.002	0.01	NE	В		078687-009	SW846 3005

# Table BSG F-7 Summary of Total Metal Results Burn Site Groundwater Monitoring

### Fiscal Year 2006

Well ID	Analyte	Result <sup>a</sup> (mg/L)	MDL <sup>b</sup> (mg/L)	PQL° (mg/L)	MCL⁴ (mg/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Aluminum	0.244	0.005	0.015	빙	В	٦	078676-009	SW846 3005
	Antimony	0.000535	0.0005	0.002	900.0	В, Ј	В, ВЗ, Ј	078676-009	SW846 3005
	Arsenic	QN	0.0015	0.005	0.01	n		078676-009	SW846 3005
	Barium	0.110	0.005	0.02	2			078676-009	SW846 3005
	Beryllium	Q	0.0001	0.0005	0.004	n		078676-009	SW846 3005
	Cadmium	Q	0.0001	0.001	0.005	ס		078676-009	SW846 3005
	Calcium	92.6	0.2	1.0	N.			078676-009	SW846 3005
	Chromium	0.00195	0.001	0.003	0.1	В, Ј	В, Ј	018676-009	SW846 3005
	Cobalt	0.000793	0.0001	0.001	Ŋ	٦		078676-009	SW846 3005
	Copper	0.00124	0.0002	0.001	NE			078676-009	SW846 3005
	Iron	0.683	0.01	0.025	Ŋ			078676-009	SW846 3005
:YN-MW7	Lead	Q	0.0005	0.002	Ŋ	ס		078676-009	SW846 3005
3-Jun-06	Magnesium	20.4	0.005	0.015	NE			078676-009	SW846 3005
	Manganese	0.588	0.001	0.005	NE			078676-009	SW846 3005
	Mercury	ND	0.00006	0.0002	0.002	n	B3, UJ	600-929820	SW846 7470
	Nickel	0.00272	0.0005	0.002	NE			078676-009	SW846 3005
	Potassium	2.42	0.08	0.3	NE			078676-009	SW846 3005
	Selenium	ND	0.0025	0.005	0.05	n		078676-009	SW846 3005
	Silver	QN	0.0002	0.001	NE	n		600-929820	SW846 3005
	Sodium	37.5	0.08	0.25	NE			018676-009	SW846 3005
	Thallium	0.00049	0.0004	0.001	0.002	Ŋ		078676-009	SW846 3005
	Uranium	0.00648	0.00005	0.0002	0.03	В		078676-009	SW846 3005
	Vanadium	0.00234	0.002	0.03	NE	Ŋ		078676-009	SW846 3005
	Zinc	0.00688	0.002	0.01	NE	В, Ј	В, Ј	600-929820	SW846 3005
efer to footnotes on page 25	nge 25.								

Appendices

Table BSG F-7 (Concluded)
Summary of Total Metal Results
Burn Site Groundwater Monitoring

### Fiscal Year 2006

Well ID	Analyte	Resulta	MDL	PQL°	MCL	Laboratory	Validation	Sample No.	Analytical
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	Qualitier	Qualifier		Method <sup>9</sup>
	Aluminum	0.019	0.005	0.015	NE	В	B, J, P1	078678-009	SW846 3005
	Antimony	ND	0.0005	0.002	900'0	n	B3, UJ	078678-009	SW846 3005
	Arsenic	ND	0.0015	0.005	0.01	n		078678-009	SW846 3005
	Barium	0.0867	0.0005	0.002	2			078678-009	SW846 3005
	Beryllium	QN	0.0001	0.0005	0.004	n		078678-009	SW846 3005
	Cadmium	QN	0.0001	0.001	0.005	D		078678-009	SW846 3005
	Calcium	124	0.1	0.5	NE	В		078678-009	SW846 3005
	Chromium	ND	0.001	0.003	0.1	n		600-829820	SW846 3005
	Cobalt	0.00097	0.0001	0.001	NE	7		078678-009	SW846 3005
	Copper	0.00226	0.0002	0.001	NE			078678-009	SW846 3005
	Iron	0.576	0.01	0.025	NE			600-829820	SW846 3005
CYN-MW8	Lead	ND	0.0005	0.002	NE	n		078678-009	SW846 3005
14-Jun-06	Magnesium	24.8	0.005	0.015	NE		٦	078678-009	SW846 3005
	Manganese	0.448	0.001	0.005	NE			078678-009	SW846 3005
	Mercury	ND	0.00006	0.0002	0.002	n		078678-009	SW846 7470
	Nickel	0.00478	0.0005	0.002	NE	В		078678-009	SW846 3005
	Potassium	2.54	80'0	6.0	NE			600-829820	SW846 3005
	Selenium	0.00498	0.0025	0.005	0.05	٦		600-829820	SW846 3005
	Silver	ND	0.0002	0.001	NE	n		078678-009	SW846 3005
	Sodium	64.6	0.4	1.25	NE	В		018678-009	SW846 3005
	Thallium	0.000761	0.0004	0.001	0.002	ſ	В3, Ј	078678-009	SW846 3005
	Uranium	0.00803	0.00005	0.0002	0.03			600-829820	SW846 3005
	Vanadium	ND	0.002	0.03	NE	n		078678-009	SW846 3005
Zinc	Zinc	0.0183	0.002	0.01	Ŋ	В		078678-009	SW846 3005
Refer to footnotes on page	2e 25.								

Summary of Tritium, Gross Alpha, Gross Beta, and Gamma Spectroscopy Results **Burn Site Groundwater Monitoring** Table BSG F-8

### Fiscal Year 2006

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Well ID	Analyte	Activity <sup>a</sup> (pCi/L)	MDA <sup>h</sup> (pCi/L)	Critical Level <sup>b</sup> (pCi/L)	MCL <sup>d</sup> (pCi/L)	Laboratory Qualifier	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>9</sup>
	Tritium	117 ± 156	262	128	IJ	n		078684-036	EPA 906.0 M
	Gross Alpha	0.449 ± 0.723	1.32	0.608	15	ח		078684-034	EPA 900.0
	Gross Beta	2.70 ± 1.17	2.24	1.08	4mrem/yr			078684-034	EPA 900.0
CYN-MW1D 21-, lin-06	Americium-241	$-43.7 \pm 13.5$	18.4	96'8	ЭN	n		078684-033	EPA 901.1
5	Cesium-137	$4.45 \pm 2.25$	4.45	2.09	ЭN	n	rn	078684-033	EPA 901.1
	Cobalt-60	$0.548 \pm 2.12$	3.83	1.78	ЭN	n		078684-033	EPA 901.1
	Potassium-40	92.9 ± 28.0	92.9	28.4	IJ	ח	UJ, P1	078684-033	EPA 901.1
	Tritium	206 ± 159	263	128	빌	n		078682-036	EPA 906.0 M
	Gross Alpha	9.42 ± 2.54	2.70	1.18	15			078682-034	EPA 900.0
	Gross Beta	4.70 ± 3.04	5.68	2.77	4mrem/yr	ח		078682-034	EPA 900.0
CYN-MW3	Americium-241	$1.90 \pm 2.92$	60'9	2.47	٩N	n		078682-033	EPA 901.1
	Cesium-137	-1.58 ± 2.38	4.00	1.91	IJ	ח		078682-033	EPA 901.1
	Cobalt-60	$0.146 \pm 2.40$	4.29	1.99	ЭN	n		078682-033	EPA 901.1
	Potassium-40	$118 \pm 33.1$	118	33.1	JN	n		078682-033	EPA 901.1
	Tritium	$58.0 \pm 152$	259	126	ЫN	n		078680-036	EPA 906.0 M
	Gross Alpha	37.8 ± 11.1	7.92	3.08	15			078680-034	EPA 900.0
	Gross Beta	12.2 ± 5.54	10.9	5.26	4mrem/yr			078680-034	EPA 900.0
CYN-MW4 19-110-06	Americium-241	$2.43 \pm 15.8$	18.1	8.85	ЭN	n		078680-033	EPA 901.1
5	Cesium-137	$3.27 \pm 2.30$	4.34	2.08	NE	n		078680-033	EPA 901.1
	Cobalt-60	$1.71 \pm 2.14$	4.04	1.89	ЭN	n		078680-033	EPA 901.1
	Potassium-40	$108 \pm 25.9$	108	27.6	NE	n		078680-033	EPA 901.1
	Tritium	$58.1 \pm 152$	259	126	NE	n		078687-036	EPA 906.0 M
	Gross Alpha	$13.6 \pm 7.22$	66.7	2.98	15			078687-034	EPA 900.0
	Gross Beta	9.58 ± 3.91	7.51	3.62	4mrem/yr			078687-034	EPA 900.0
CYN-MW6 22-, lin-06	Americium-241	$-0.198 \pm 2.94$	2.00	2.43	JN	n		078687-033	EPA 901.1
5	Cesium-137	$-0.134 \pm 2.14$	3.75	1.78	NE	n		078687-033	EPA 901.1
	Cobalt-60	$2.03 \pm 2.56$	4.82	2.26	NE	n		078687-033	EPA 901.1
	Potassium-40	104 ± 33.0	104	32.4	IJ	ח	UJ, P1	078687-033	EPA 901.1
Refer to footnotes on page 25.									

## Summary of Tritium, Gross Alpha, Gross Beta, and Gamma Spectroscopy Results **Burn Site Groundwater Monitoring** Table BSG F-8 (Concluded)

### Fiscal Year 2006

Well ID	Analyte	Activity <sup>a</sup> (pCi/L)	MDA <sup>h</sup> (pCi/L)	Critical Level <sup>b</sup> (pCi/L)	MCL⁴ (pCi/L)	Laboratory Qualifier <sup>e</sup>	Validation Qualifier <sup>f</sup>	Sample No.	Analytical Method <sup>g</sup>
	Tritium	29.5 ± 154	264	129	NE	n		078676-036	EPA 906.0 M
	Gross Alpha	13.3 ± 6.63	8.69	3.47	15			078676-034	EPA 900.0
!	Gross Beta	$4.65 \pm 2.81$	5.24	2.55	4mrem/yr	n		078676-034	EPA 900.0
CYN-MW/ 13-11n-06	Americium-241	2.66 ± 3.81	6.21	3.03	NE	n		078676-033	EPA 901.1
	Cesium-137	-0.272 ± 2.94	5.10	2.43	NE	n		078676-033	EPA 901.1
	Cobalt-60	2.74 ± 3.01	5.81	2.72	NE	n		078676-033	EPA 901.1
	Potassium-40	19.1 ± 28.6	54.4	25.3	NE	n		078676-033	EPA 901.1
	Tritium	29.0 ± 151	259	126	NE	n		078678-036	EPA 906.0 M
	Gross Alpha	$34.0 \pm 10.6$	11.1	4.63	15			078678-034	EPA 900.0
	Gross Beta	10.6 ± 4.72	8.99	4.31	4mrem/yr			078678-034	EPA 900.0
CYN-MW8 14-11-10-06	Americium-241	$0.0838 \pm 2.94$	5.02	2.44	NE	n		078678-033	EPA 901.1
	Cesium-137	$-0.894 \pm 2.30$	3.94	1.87	NE	n		078678-033	EPA 901.1
	Cobalt-60	$0.00828 \pm 2.85$	4.38	2.04	NE	n		078678-033	EPA 901.1
	Potassium-40	95.2 ± 29.9	95.3	29.8	NE	n		078678-033	EPA 901.1

Refer to footnotes on page 25.

### Table BSG F-9 Summary of Field Water Quality Measurements<sup>i</sup> Burn Site Groundwater Monitoring

### Fiscal Year 2006

	Sample Date	Temperature (°C)	Specific Conductivity (µmho/cm)	Oxidation Reduction Potential (mV)	Ħ	Turbidity (NTU)	Dissolved Oxygen (mg/L)
	06-Dec-05	16.39	420	-281.1	8.60	38.5	1.76
	27-Mar-06	17.55	436	-262.4	8.54	49.0	0.46
OLAMA-NA	21-Jun-06	20.01	436	-293.6	8.49	13.9	0.13
	19-Sep-06	20.05	422	-78.5	8.46	22.0	0.63
CIVIN INVIO	20-Jun-06	17.69	1,036	30.2	7.12	96.0	2.03
NAIN-MIN	18-Sep-06	15.23	929	360.8	7.52	0.40	5.61
774	19-Jun-06	18.23	731	24.8	7.14	1.08	2.24
4 IN-INIVV4	15-Sep-06	18.84	639	332.6	7.54	0.89	1.87
	23-Mar-06	15.55	1,124	118.7	7.09	1.39	2.42
SYN-MW6	22-Jun-06	18.16	1,080	365.8	7.11	39.9	4.21
	20-Sep-06	16.65	1,061	313.2	7.02	1.14	2.42
	20-Mar-06	15.27	739	-50.9	7.19	29.65	1.46
CYN-MW7	13-Jun-06	19.99	745	-39.4	7.23	5.61	1.53
	13-Sep-06	19.92	561	6.09	7.36	3.39	2.14
	21-Mar-06	16.69	938	-37.4	7.16	2.16	3.51
SYN-MW8	14-Jun-06	20.13	948	8.1	7.19	1.01	0.83
	14-Sep-06	18.60	731	148.5	7.37	1.02	2.03

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### Footnotes for Burn Site Groundwater Monitoring

### <sup>a</sup>Result

- Values in bold exceed the established MCL.
- ND = not detected (at method detection limit).
- Activities of zero or less are considered to be not detected.
- μg/L = micrograms per liter
- mg/L = milligrams per liter
- pCi/L = picocuries per liter

### <sup>b</sup>MDL or Critical level

Method detection limit. The minimum concentration or activity that can be measured and reported with 99% confidence that the analyte is greater than zero, analyte is matrix specific.

### °PQL

Practical quantitation limit. The lowest concentration of analytes in a sample that can be reliably determined within specified limits of precision and accuracy by that indicated method under routine laboratory operating conditions.

### **dMCL**

MCL = Maximum contaminant level. Established by the U.S. Environmental Protection Agency Primary Water Regulations (40 CFR 141.11(b)), and subsequent amendments or the New Mexico Environmental Improvement Board in Title 20, Chapter 7, Part 1 of the New Mexico Administrative Code (20 NMAC 7.1). NE = not established.

The following are the MCLs for gross alpha particles and beta particles in community water systems: 15 pCi/L = Gross alpha particle activity (including radium-226 but excluding radion and total uranium). 4 mrem/yr = any combination of beta and/or gamma emitting radionuclides (as dose rate).

### <sup>e</sup>Lab Qualifier

- B = Analyte is detected in associated laboratory method blank.
- h = Prep holding time exceeded.
- H = Analytical holding time was exceeded.
- J = Amount detected is below the practical quantitation limit (PQL).
- P = The response between the confirmation column and the primary column is > 40%.
- U = Analyte is absent or below the method detection limit.
- X = Data rejected due to low abundance.

### **Validation Qualifier**

If cell is blank, then all quality control samples met acceptance criteria with respect to submitted samples.

- A2 = Laboratory accuracy and/or bias measurements for the matrix spike and/or matrix spike duplicate samples do not acceptance criteria.
- B = Analyte present in associated laboratory method blank.
- B1 = Analyte present in associated trip blank sample.
- B2 = Analyte present in associated equipment blank sample.
- B3 = Analyte present in associated continuing calibration blank.
- HT = The holding time was exceeded for the associated sample analysis.
- J = Associate value is an estimated quantity.
- NJ = Presumptive evidence of the presence of the material at an estimated quantity.
- P1 = Laboratory precision measurements for the laboratory control and duplicate samples do not acceptance criteria.
- P2 = Insufficient quality control data to determine laboratory precision.
- R = The data are unusable for their intended purpose. The analyte may or may not be present.
- TP = The method requirements for sample preservation/temperature were not met for the sample analysis.

### Footnotes for Burn Site Groundwater Monitoring (concluded)

### 'Validation Qualifier (continued)

UJ = Analyte not detected above laboratory method detection limit, but associated value is an estimate and may be inaccurate or imprecise.

#U = Analyte was qualified as not detected at listed value.

#UJ = Analyte was qualified as not detected at the listed value. The value is an estimate.

### <sup>9</sup>Analytical Method

U.S. Environmental Protection Agency, 1990, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846. 3rd ed.

U.S. Environmental Protection Agency, 1983, "The Determination of Inorganic Anions in Water by Ion Chromatography-Method 300.0."

EPA-600/4-84-017.

U.S. Environmental Protection Agency, 1999, "Perchlorate in Drinking Water Using Ion Chromatography," EPA 815/R-00-014.

U.S. Environmental Protection Agency, 2005, "Perchlorate in Water, Soils, and Solids Using High Performance Liquid Chromatography/Electrospray Ionization/Mass Spectrometry (HPLC/ESI/MS)," draft, Method 6850.

Analytical method used to detect radionuclides is HASL 300 4.5.2.3;

U.S. Department of Energy, Environmental Measurements Laboratory, 1990, "EML Procedures Manual," 27th ed., Vol. 1, Rev. 1992, HASL-300.

EPA 903.0/904.0: U.S. Environmental Protection Agency, 1980, "Prescribed Procedures for Measurement of Radioactivity in Drinking Water,"

EPA-600/4-80-032.

### **hMDA**

The minimal detectable activity or minimum measured activity in a sample required to ensure a 95% probability that the measured activity is accurately quantified above the critical level.

### Field Water Quality Measurements

Field measurements collected prior to sampling.

°C = degrees Celsius

μmho/cm = micromhos per centimeter

mg/L = milligrams per liter

mV = millivolts

NTU = nephelometric turbidity units

pH = potential of hydrogen (negative logarithm of the hydrogen ion concentration)

### APPENDIX G

### Hydrographs Groundwater Surveillance Task

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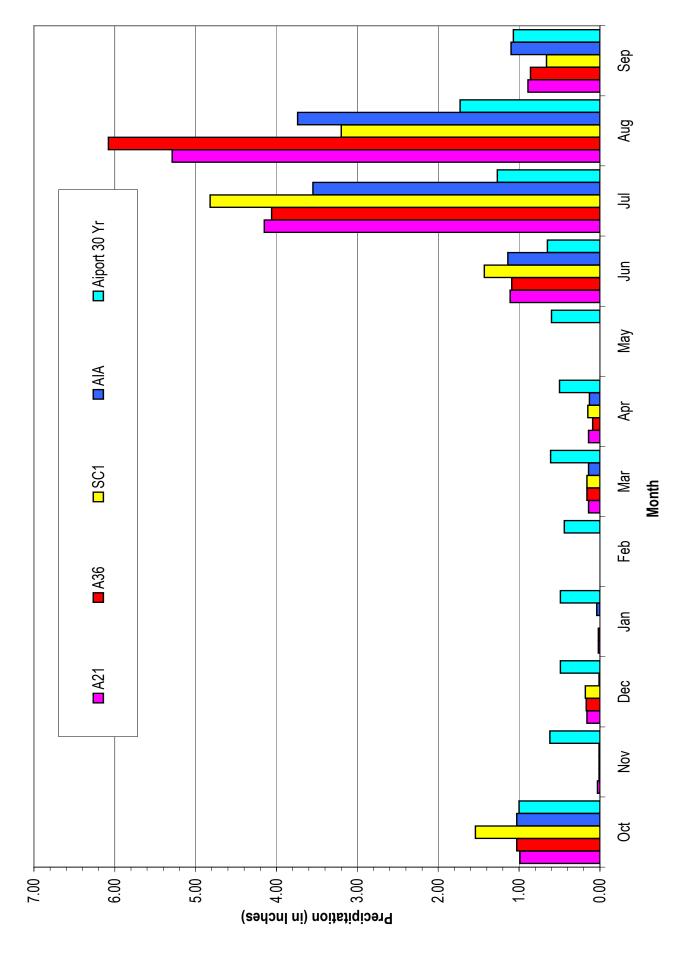


Figure G-1. Precipitation Data for SNL/NM, FY06

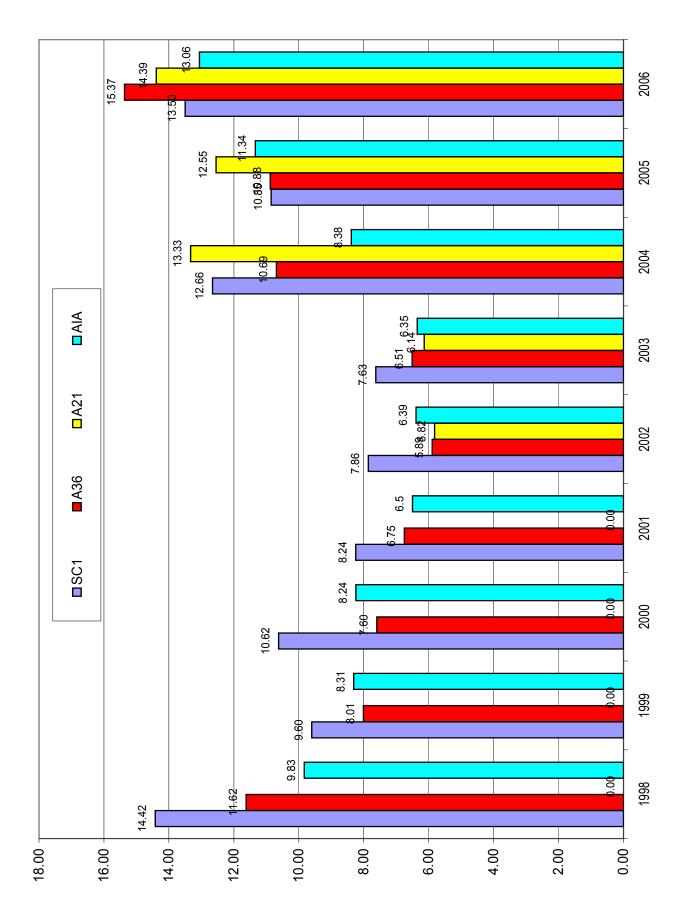


Figure G-2. Annual Precipitation Data for SNL/NM, Jan 1998 to Sept 2006

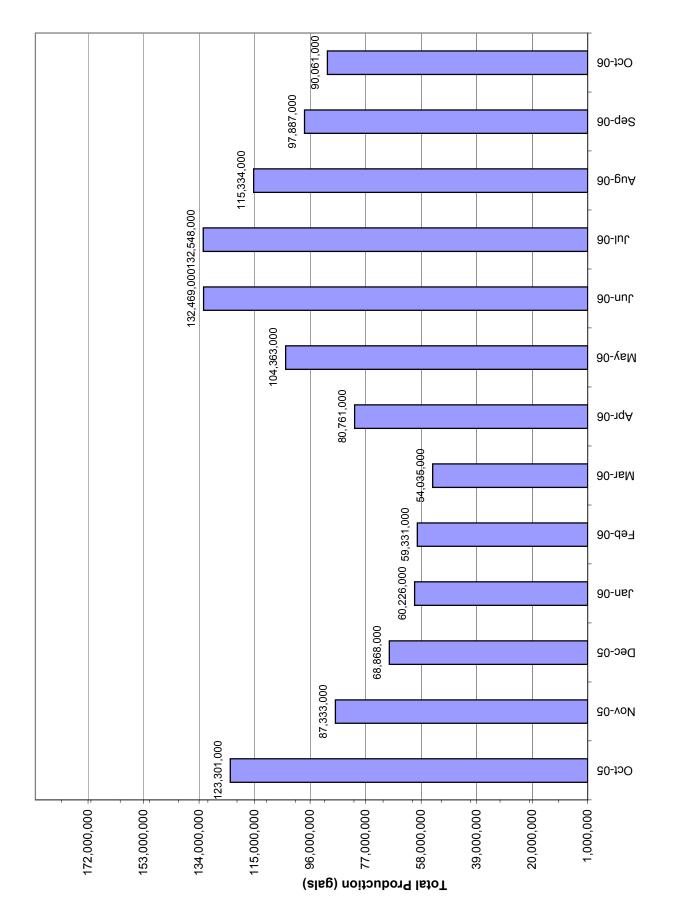


Figure G-3. Total Groundwater Pumped by KAFB Water supply Wells, FY06

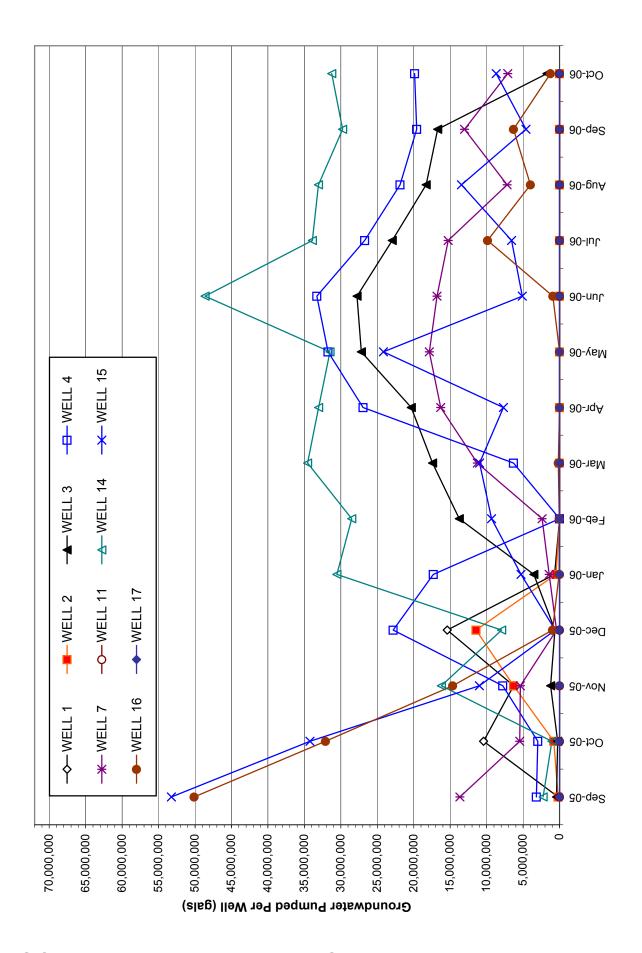


Figure G-4. Groundwater Pumped by KAFB Water Supply Wells, FY06

Figure G-5. Annual Groundwater Pumped by KAFB Water Supply Wells, 1996 to 2006

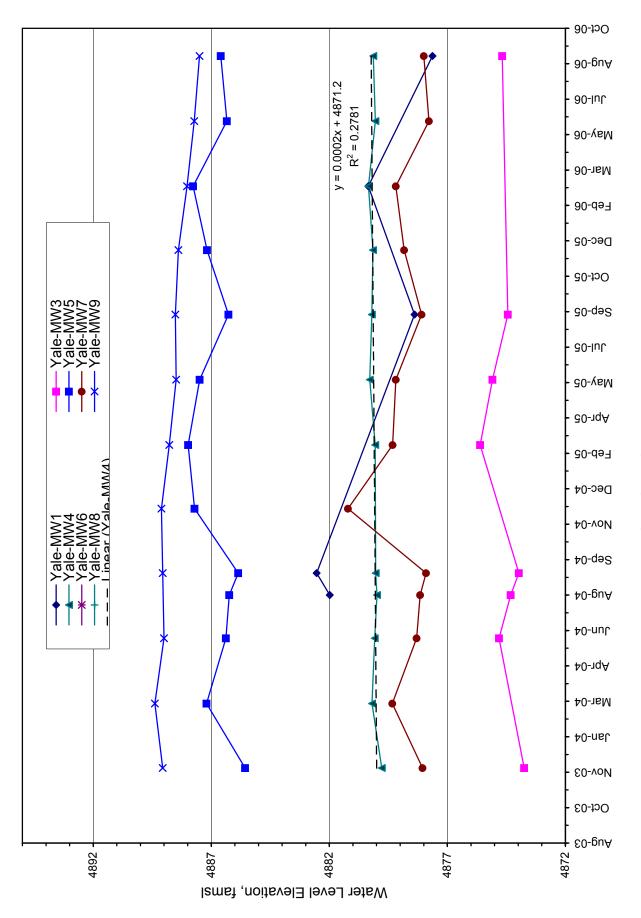
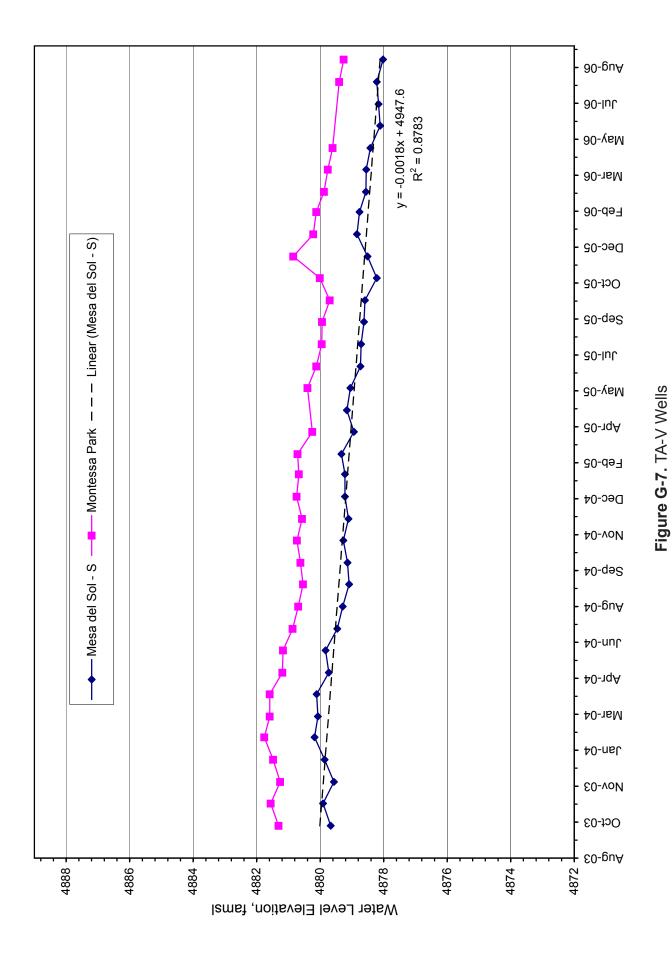
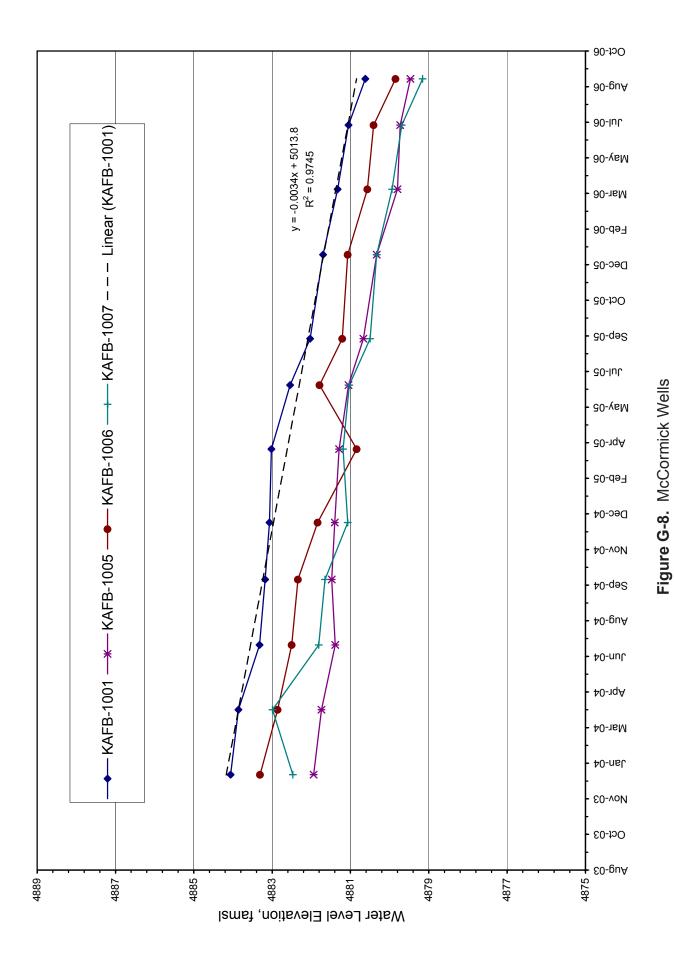


Figure G-6. City of Albuquerque Wells





Annual Groundwater Monitoring Report, Fiscal Year 2006

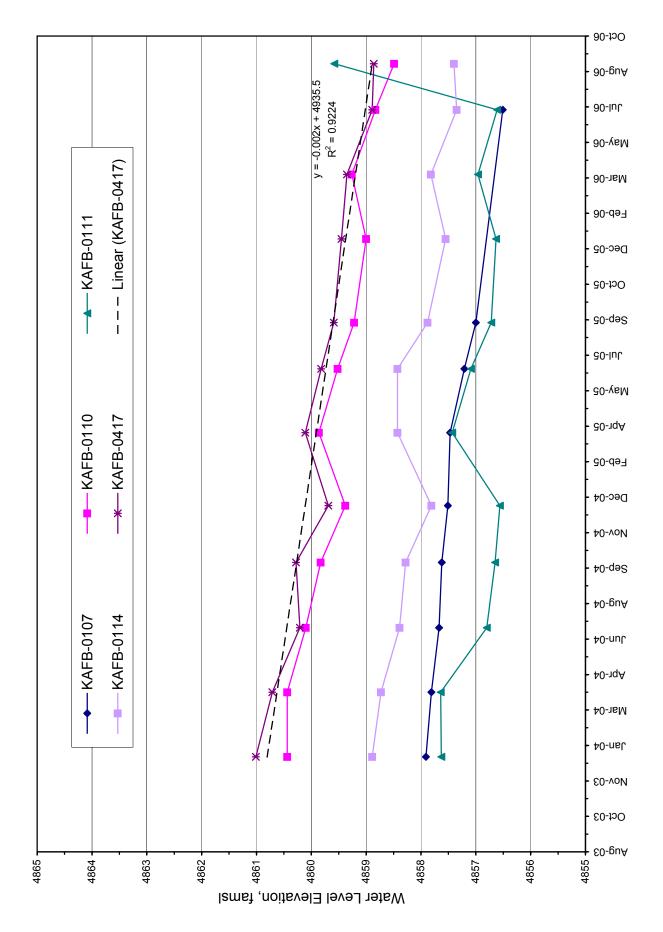


Figure G-9. KABF North Wells (1 of 2)

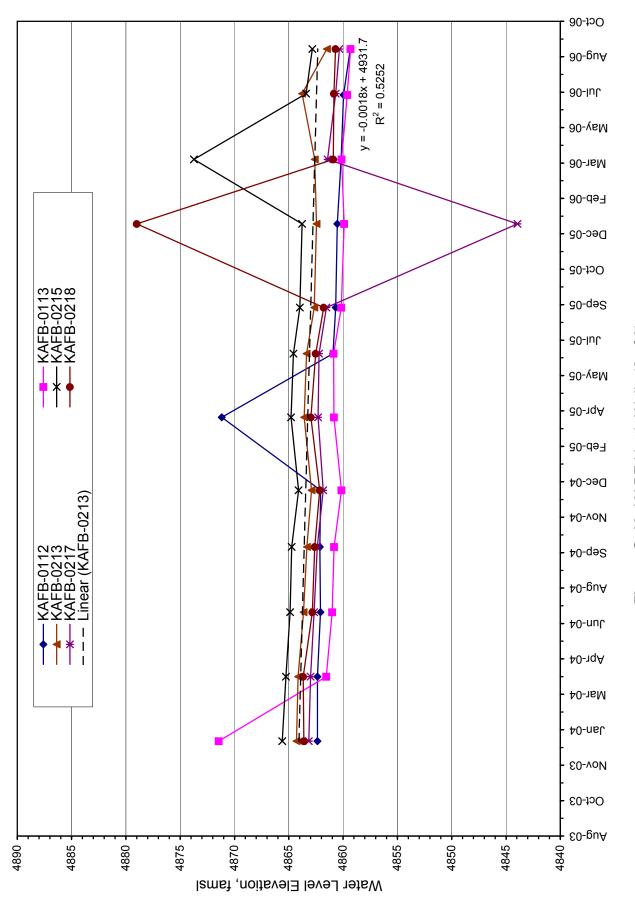


Figure G-10. KABF North Wells (2 of 2)

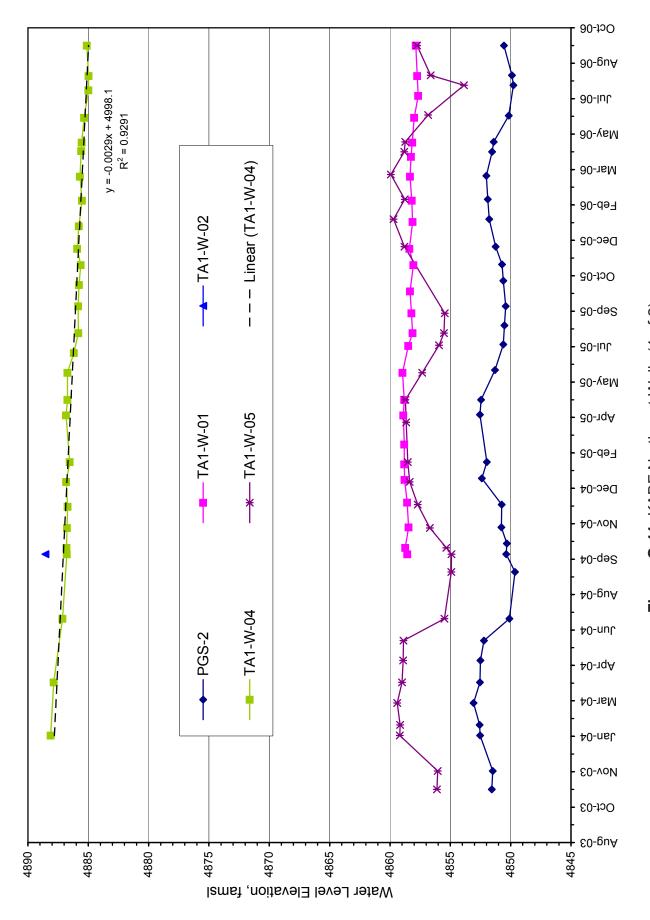
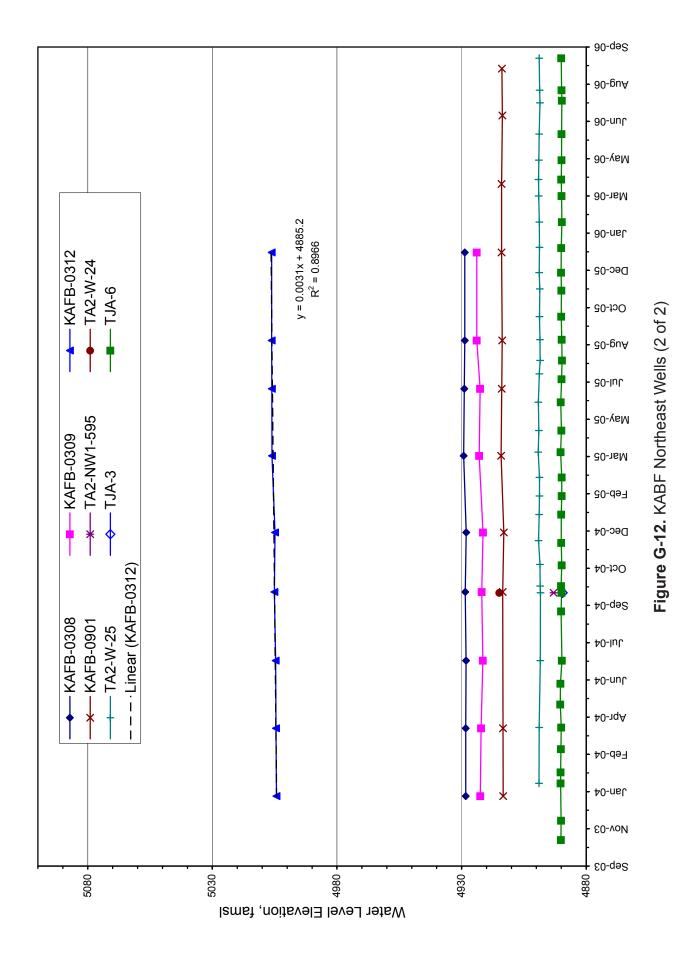
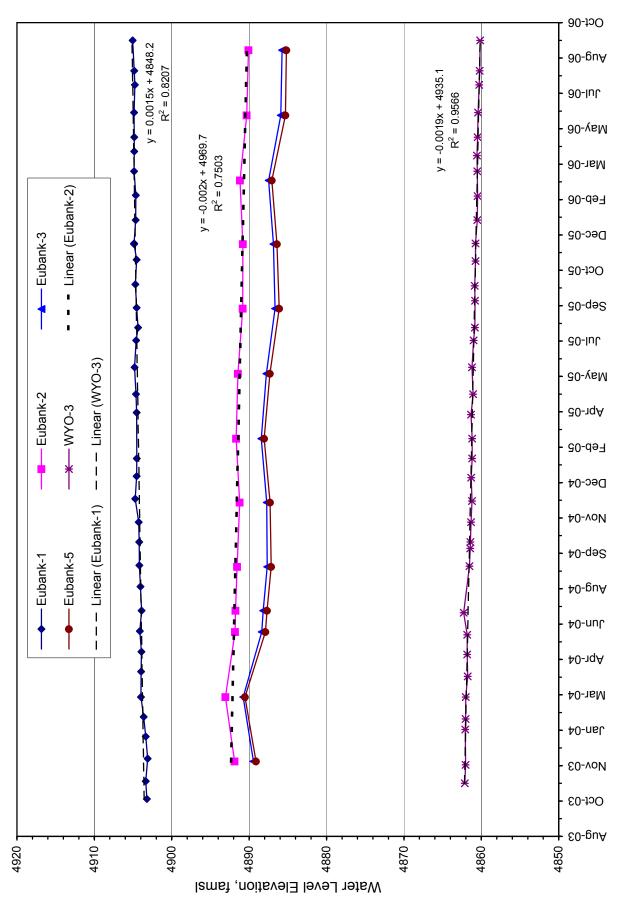


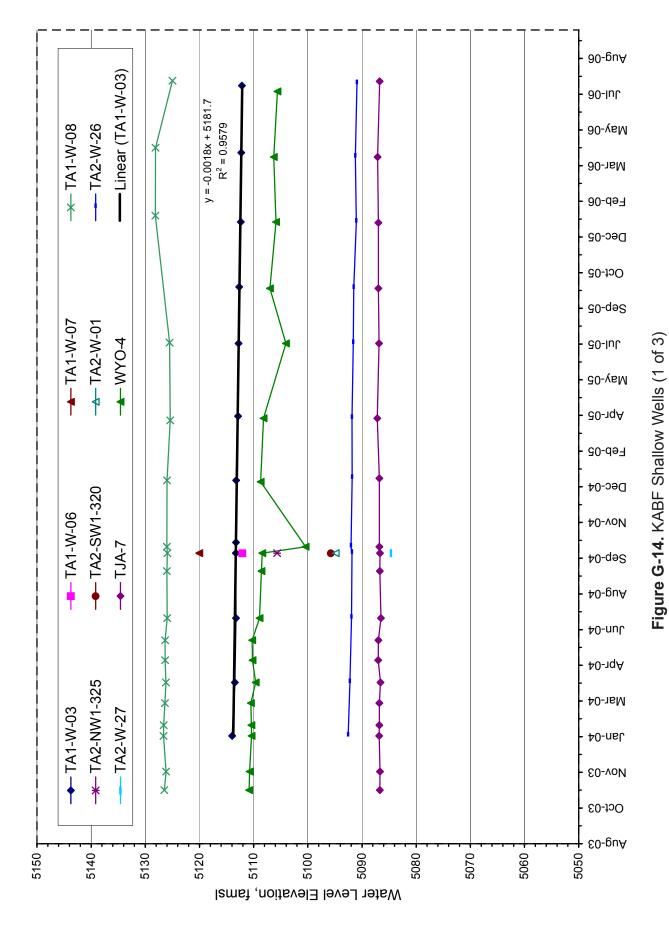
Figure G-11. KABF Northeast Wells (1 of 2)



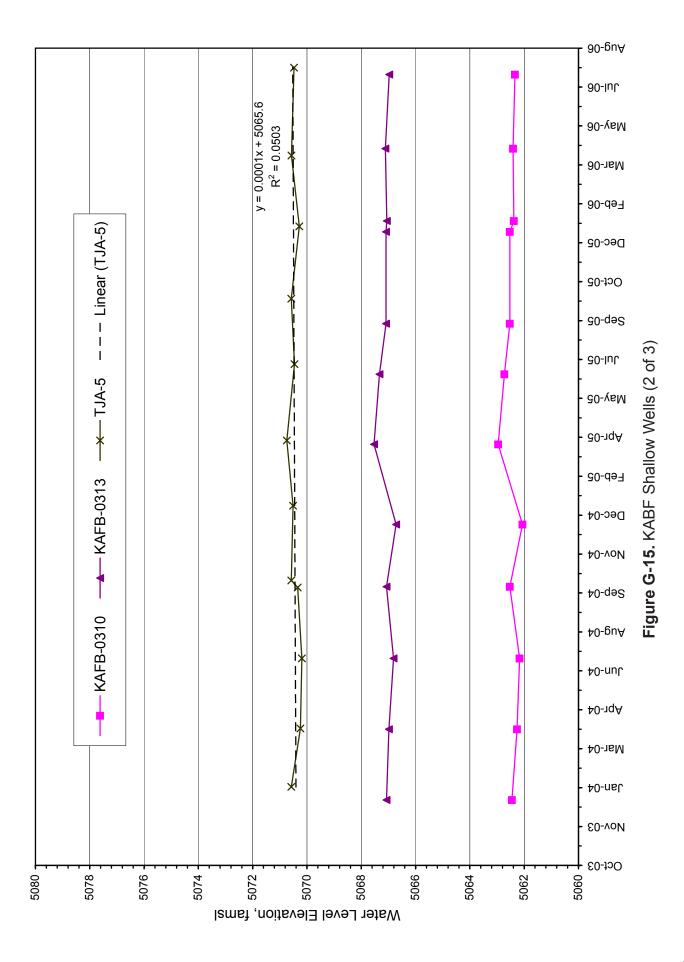


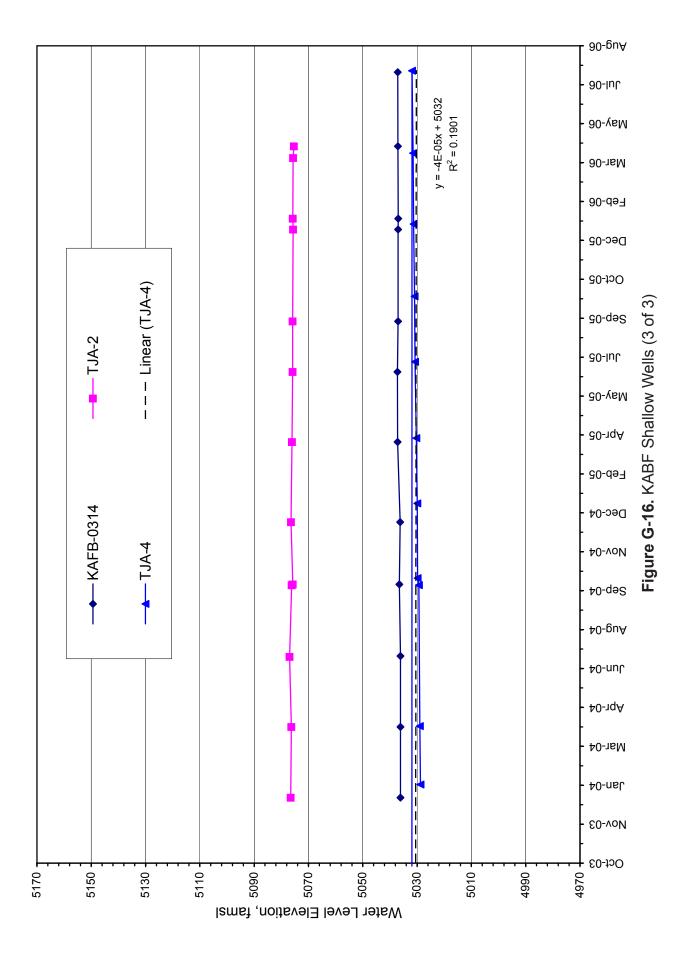
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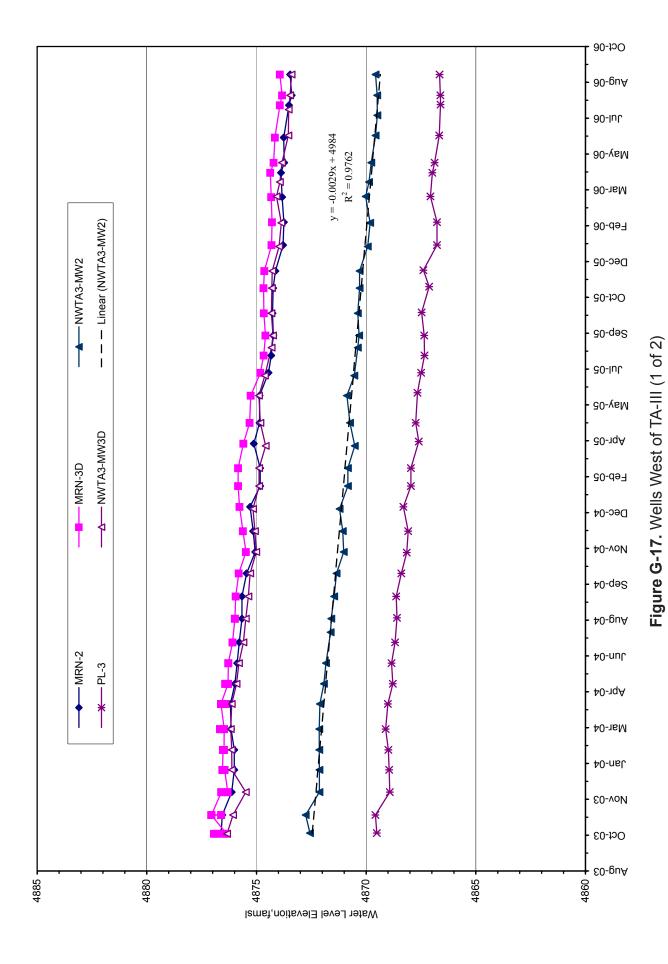
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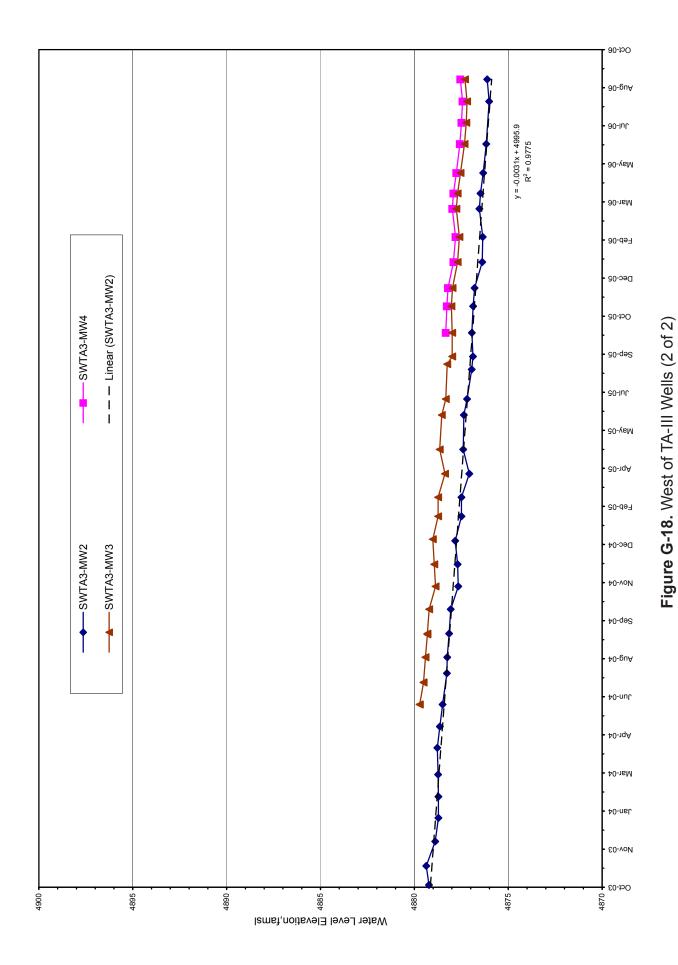
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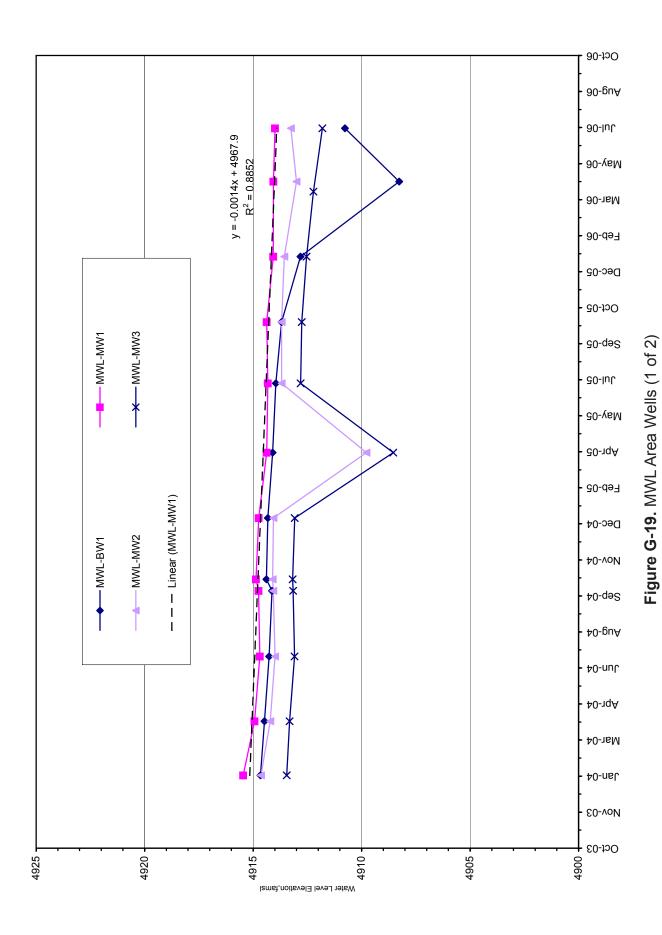


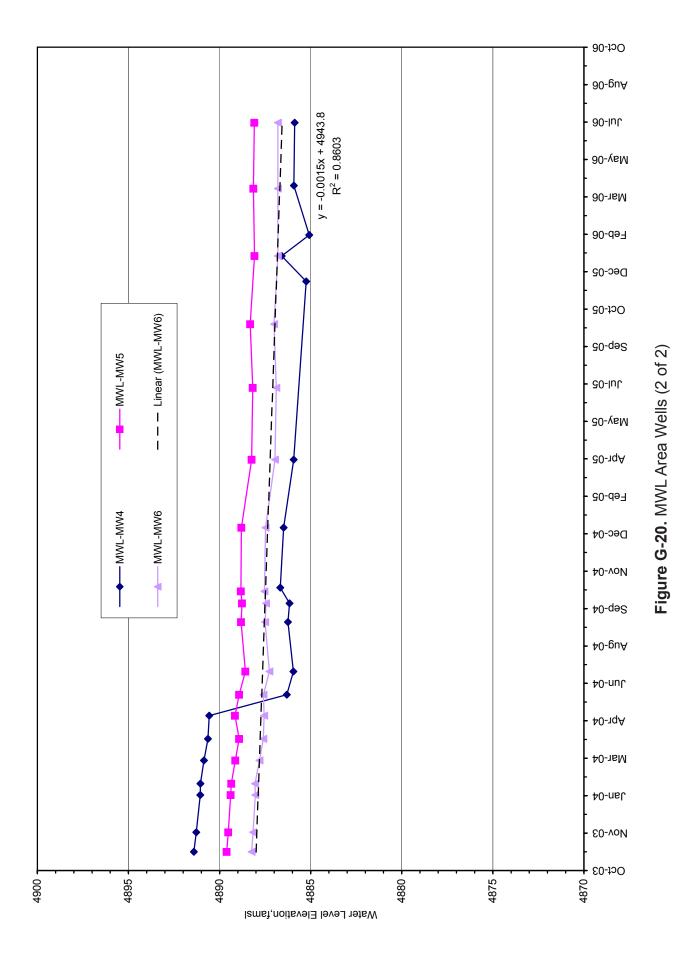


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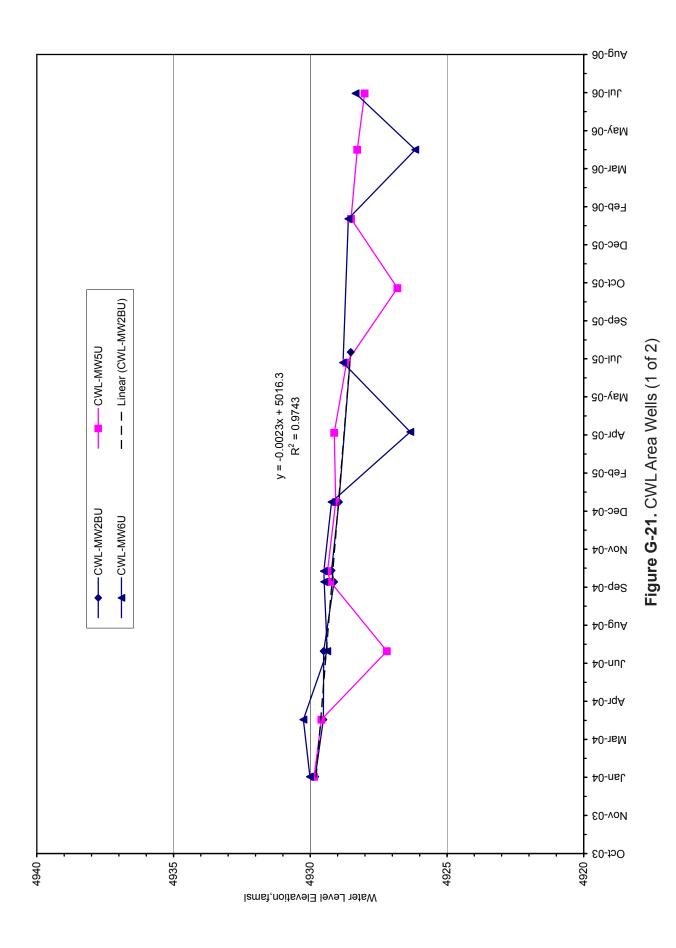


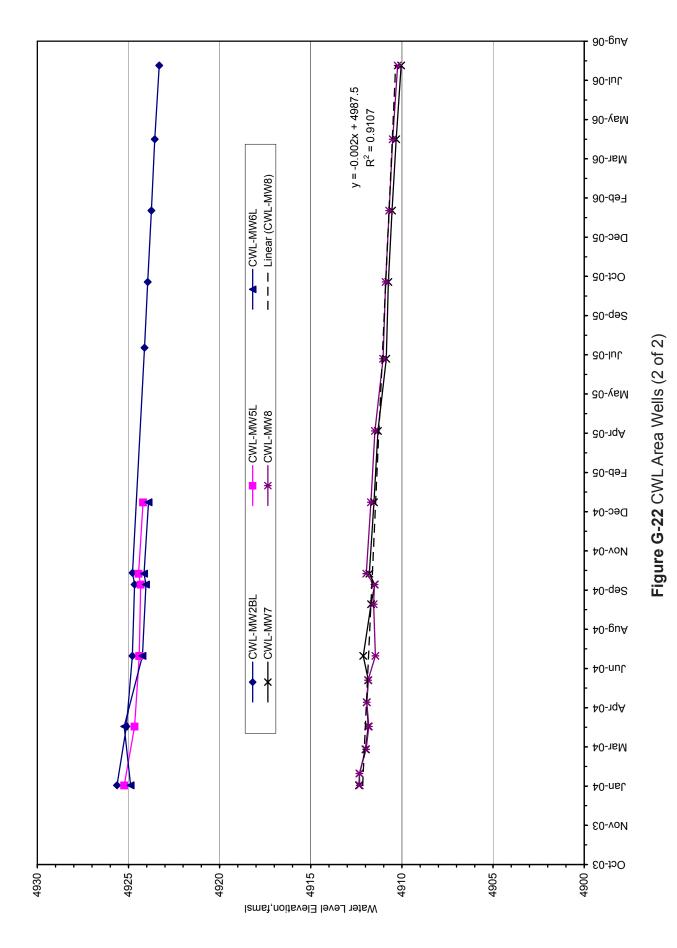
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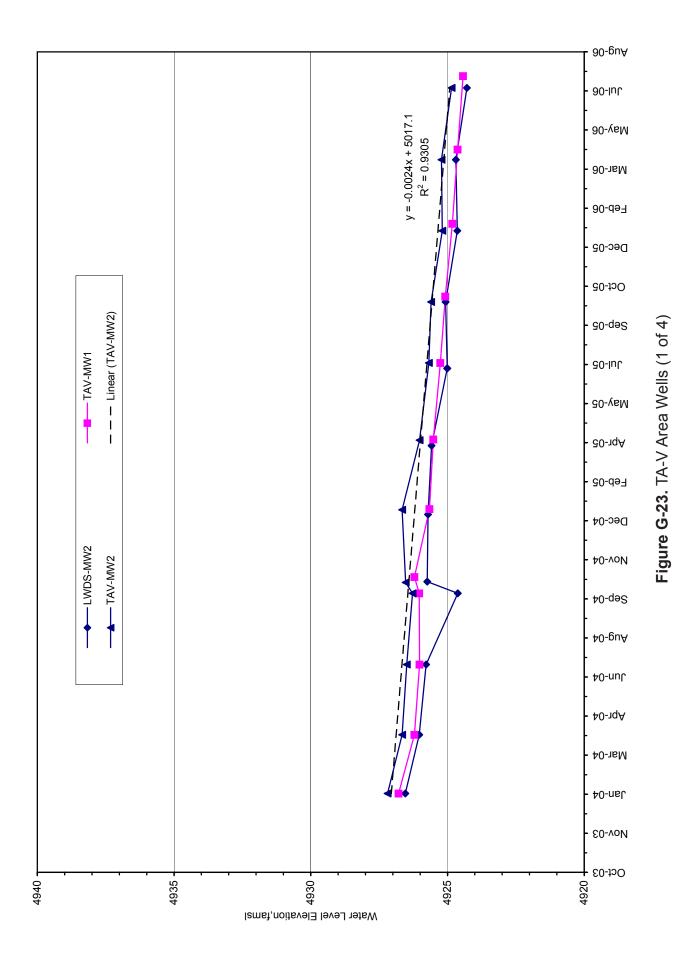


Annual Groundwater Monitoring Report, Fiscal Year 2006

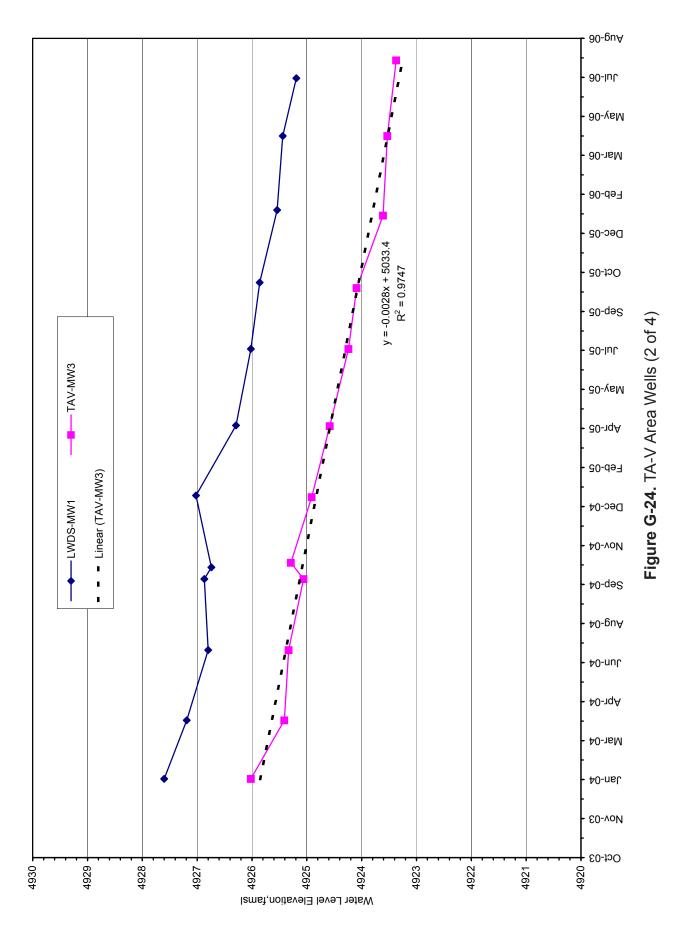




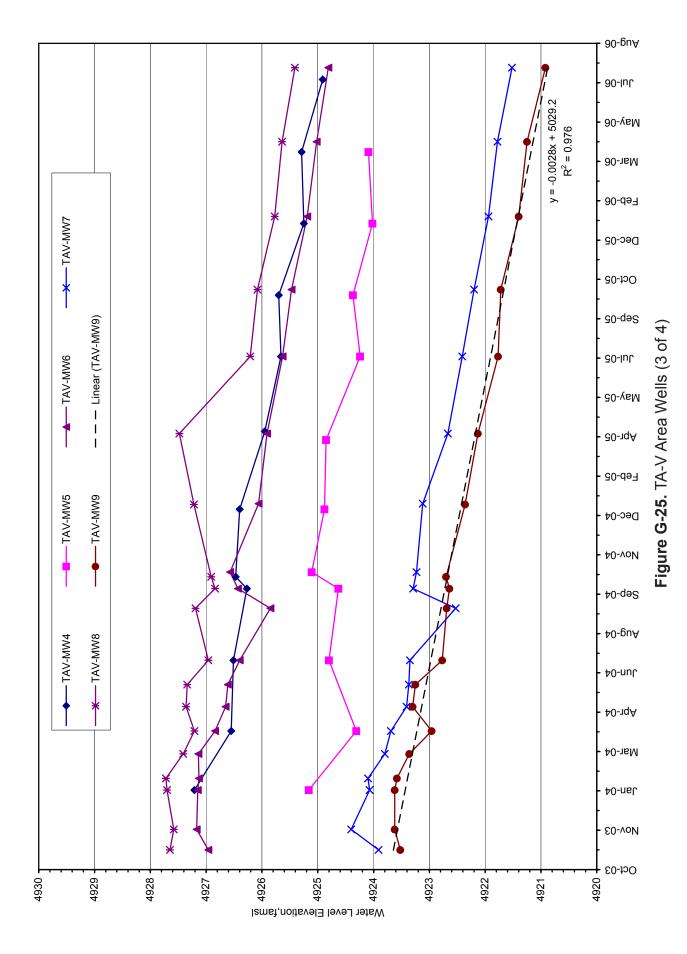
Annual Groundwater Monitoring Report, Fiscal Year 2006



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Annual Groundwater Monitoring Report, Fiscal Year 2006



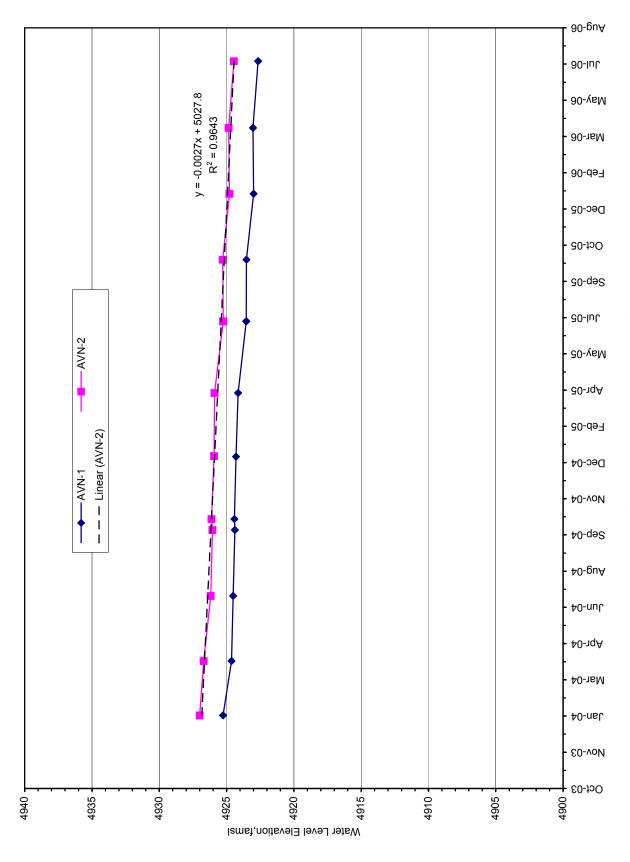
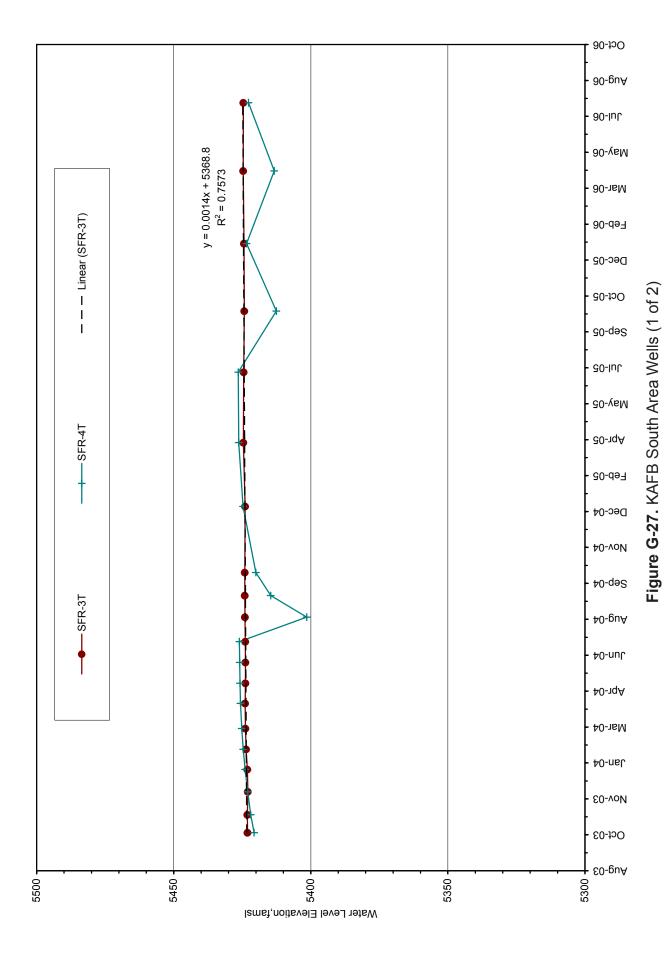


Figure G-26. TA-V Area Wells (4 of 4)



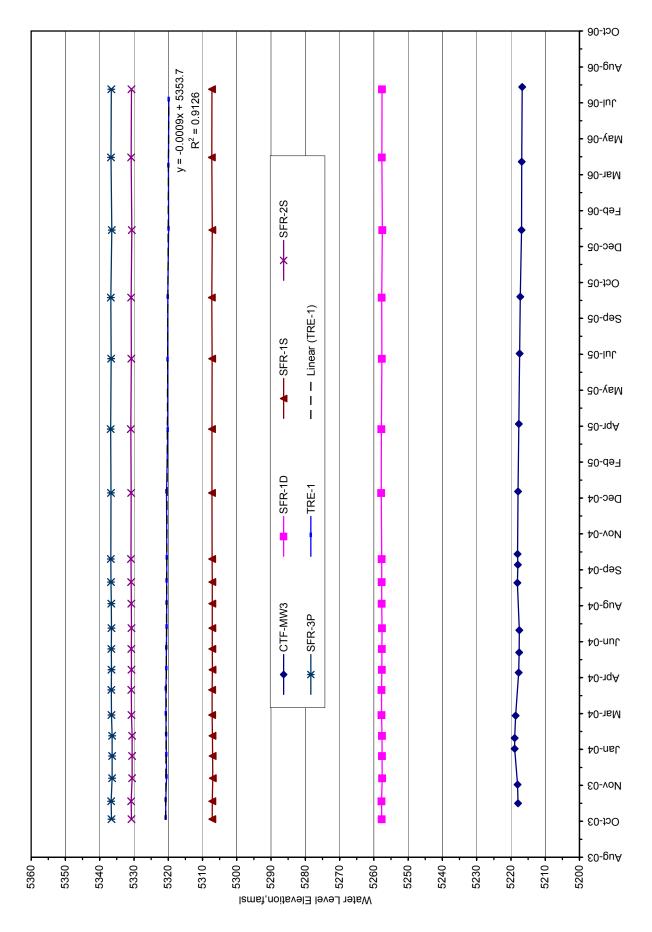


Figure G-28. KAFB South Area Wells (2 of 2)

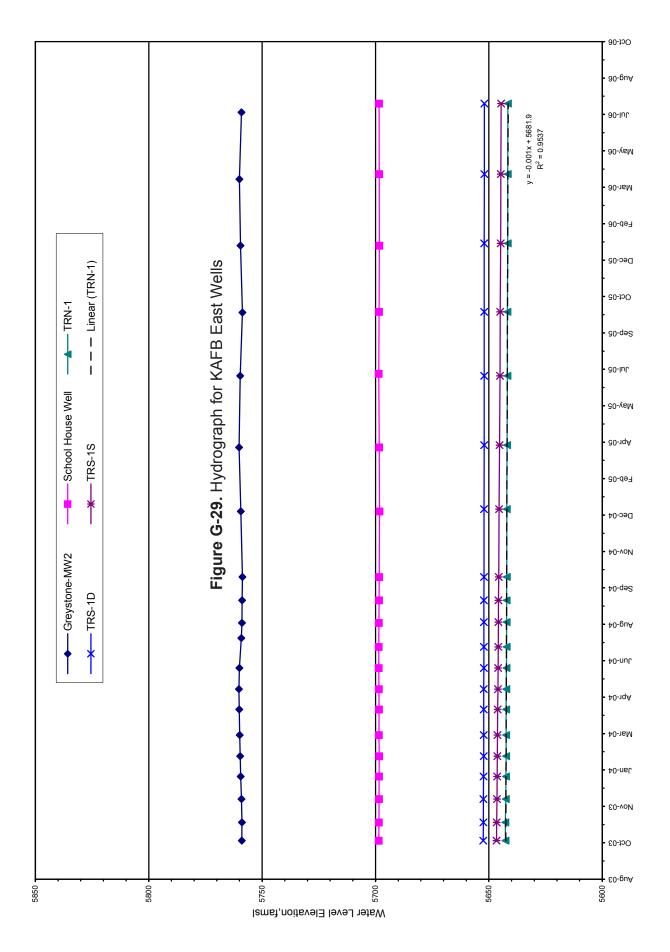


Figure G-29. KAFB East Wells

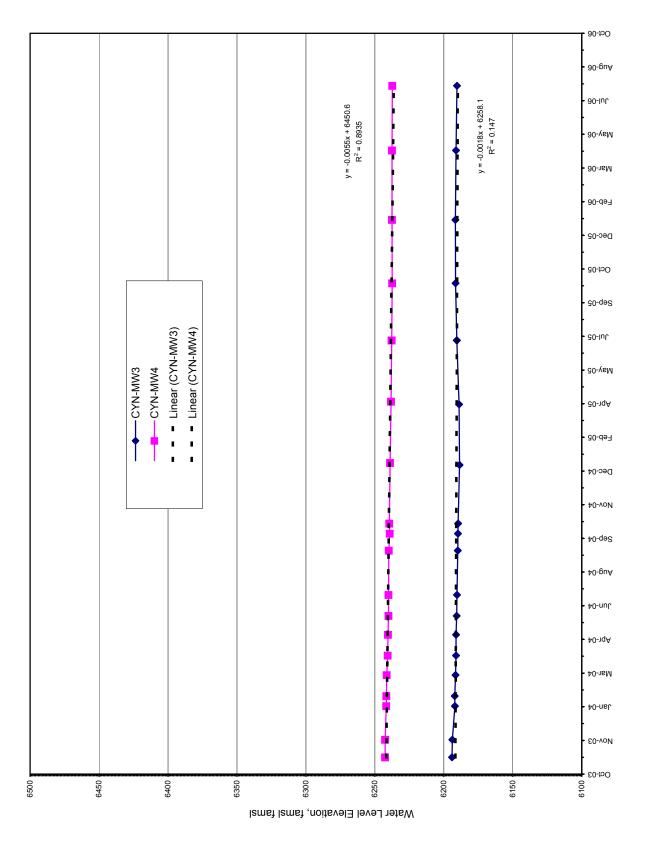
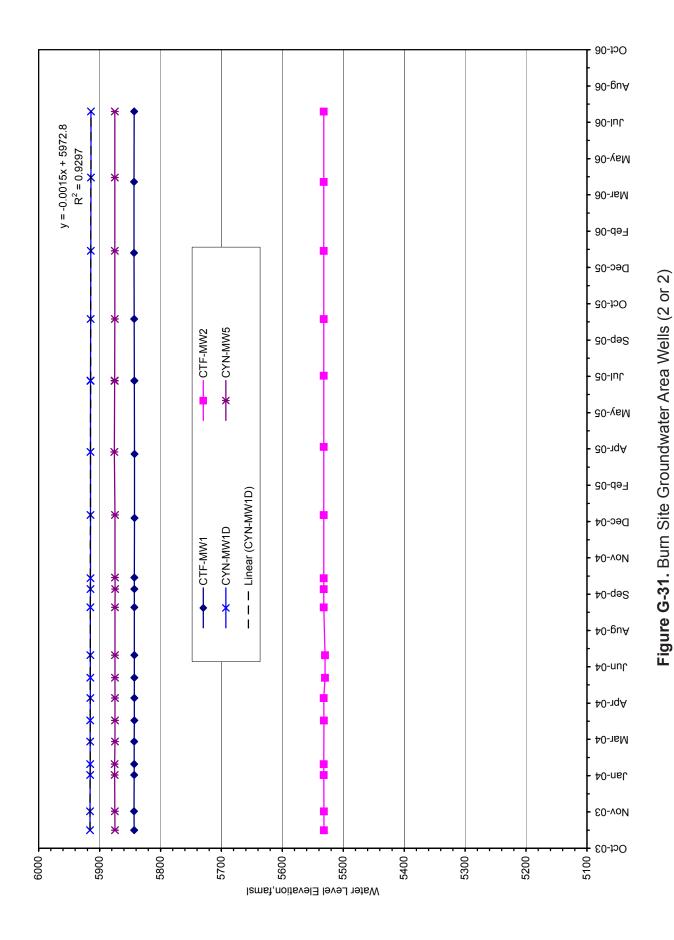


Figure G-30. Burn Site Groundwater Area Wells (1 or 2)



APPENDICES G-35

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